VE Series II UTE

VE Ute Owner’s Handbook

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Note Please refer to the inside front cover of the Service/warranty booklet for the Vehicle Identification Certificate.

Printed in Australia
Part No. 92239600
July 2011 (MY11 VE Ute. Print 5)

© 2011 GM Holden Ltd
Reproduction in whole or part is prohibited without written approval from GM Holden Ltd, ABN 84 006 893 232

Introduction 2
In brief 4
Keys, doors, and windows 15
Seats, restraints 28
Storage 44
Instruments and controls 57
Lighting 89
Infotainment system 95
Climate control 159
Driving and operating 167
Vehicle care 203
Service and maintenance 270
Technical data 272
Customer information 279
Index 281

Introduction

We thank you for choosing Holden and want to
assure you of our continuing interest in your
driving pleasure and satisfaction.
This handbook applies to the current VE Ute series II model.
Therefore, due to different models and options, you may
find reference in this Handbook to some equipment
not fitted to your own vehicle.
Please note that all information, illustrations and
specifications in this Handbook are based on the latest
production information available at the time of printing.
Holden reserves the right to make changes at any time
without notice and without incurring any obligation.

Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Handbook provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

Using this manual

- The In brief section will give you an initial overview.
- The table of contents at the beginning of this manual and within each chapter shows where the information is located.
- The index will enable you to search for specific information.
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- Depending on the model variant, integrated special equipment and accessories, the scope of equipment of your vehicle can differ from the descriptions in this Owner's Handbook.
- The *Bluetooth*® word mark and logo are registered trademarks and are owned by the Bluetooth SIG, Inc.
- ESP® is a registered trademark of Daimler Chrysler AG.
- iPod® is a registered trademark of Apple Inc.

Danger, warnings and cautions

⚠Danger

Text marked ⚠ **Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

⚠Warning

Text marked ⚠ **Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury.

Caution

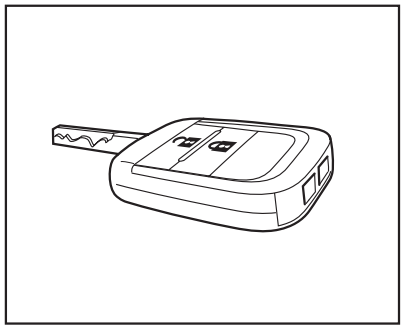
Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage.

In brief

Initial drive information

Unlocking the vehicle

Remote keyless entry



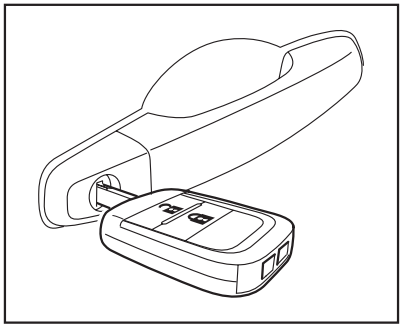
: Lock and arm the alarm

: Unlock and disarm the alarm

Keys and locks, see page 15.

Doors, see page 19.

Manual door locks



To lock, insert the key into the driver's door lock and turn towards the rear of the vehicle, then turn it back to the vertical position and remove.

This will lock the doors.

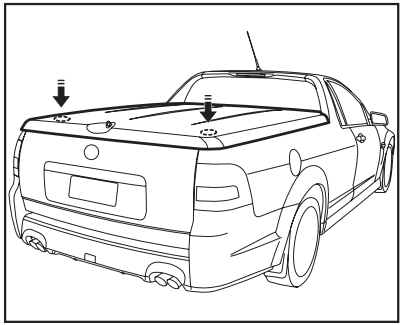
To unlock, turn the key once towards the front of the vehicle to unlock the driver's door. Turn it twice towards the front of the vehicle to unlock both doors.

Keys and locks, see page 15.

Doors, see page 19.

Tonneau cover lock

The vehicle may have a hard tonneau cover.



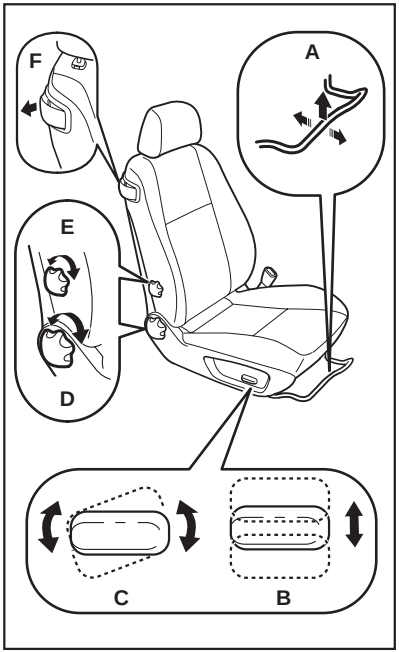
1. Pull the cover down towards the load area.
2. Press down above the two locks until it latches securely.
3. Press or on the key to lock or unlock both doors and the hard tonneau cover.

Additional storage features, see page 47.

Hard tonneau cover lock, see page 21.

Seat adjustment

The vehicle may have the following levers and switches for seat adjustment.



A. Lift for forwards/backwards
B. Up/down
C. Seat base tilt
D. Recline back
E. Lumbar
F. Seatback tilt

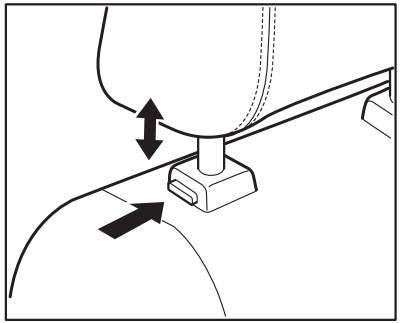
Seats, see page 29.

Head restraints

⚠Warning

The head restraint is a safety feature. Do not use the head restraint to rest the head upon.

The centre of the head restraint should be at eye level, never at neck level.



Lift the head restraint up to raise it.

Push the locking button and push the head restraint down to lower it.

The head restraints cannot be removed.

Seat belt

Pull the metal tongue across your body into the buckle, until it clicks into place.

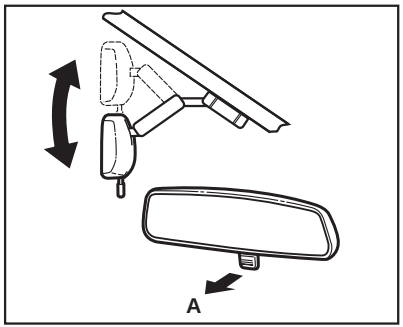
The belt should not be twisted. It should lie flat and fit firmly across your hips.

To remove, press the release button on the buckle to allow the belt to retract.

Three point belt, see page 32.

Mirror adjustment

Rear view mirror



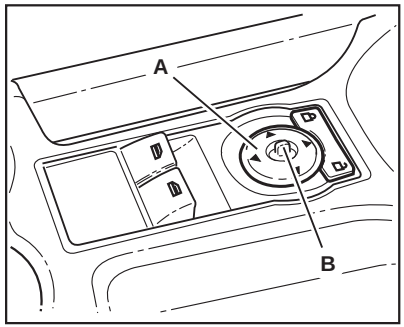
Push the lever (A) on the lower edge of the mirror towards the front of the vehicle, then adjust the position of the mirror.

To reduce headlamp glare from following vehicles, pull the lever (A) towards the rear of the vehicle.

Interior mirrors, see page 25.

Exterior mirrors

Power mirrors



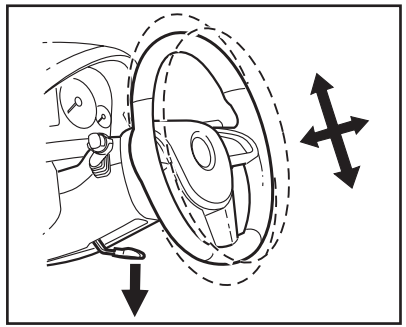
To adjust the external rear view mirrors, turn the ignition on and use switches (A) and (B) in the centre console.

Exterior mirrors, see page 25.

Steering wheel adjustment

⚠Warning

Do not attempt to adjust the steering wheel while driving.

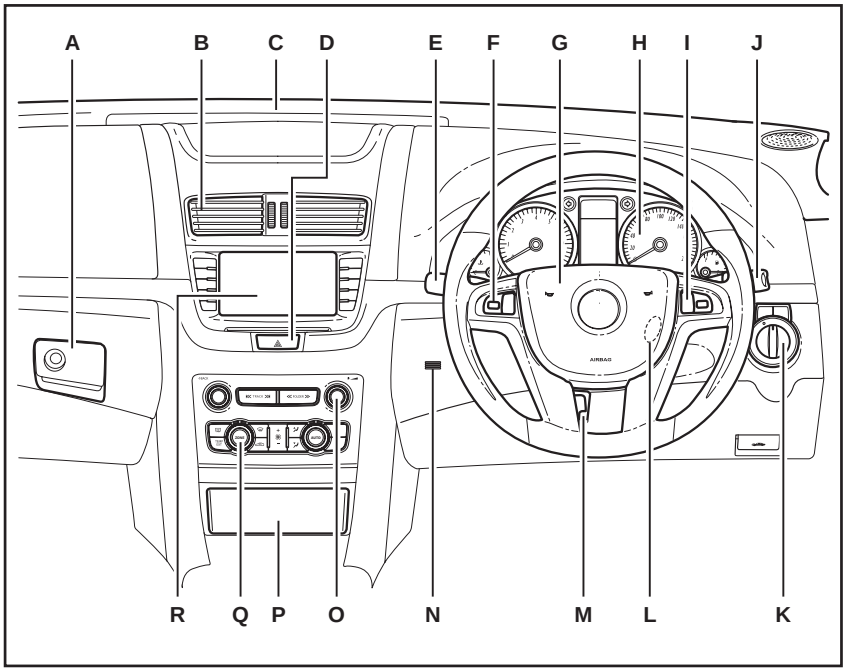


1. Move the lever down to unlock.
2. Move the steering wheel up, down, closer or away.
3. Move the lever up to lock.
4. Ensure the steering wheel is locked in position before driving.

Controls, see page 60.

Instrument panel overview

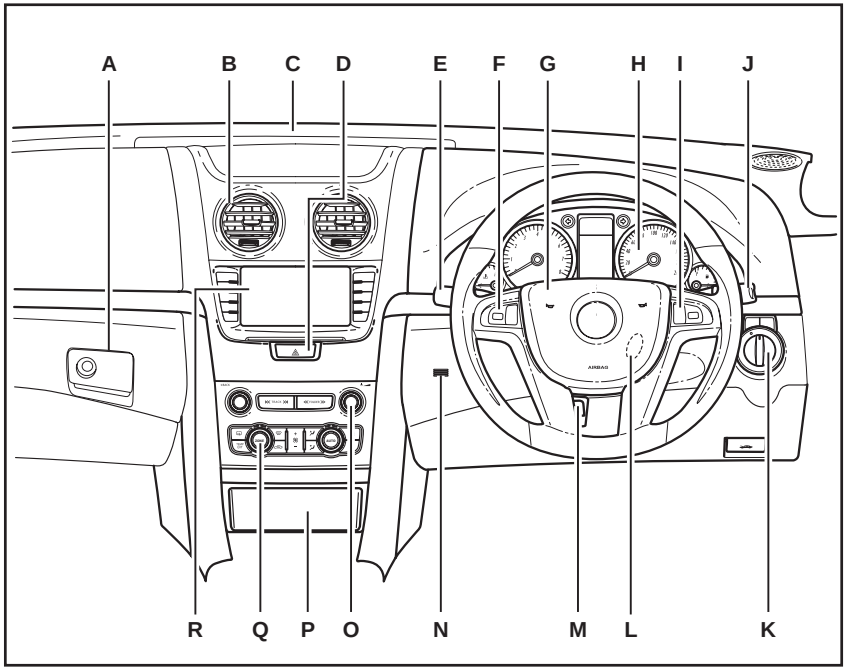
(Omega)



A. Glove box 44
B. Vents 160
C. Sunlight sensor 166
D. Hazard warning flasher 91
E. Lever for wipers/washers 61
F. Steering wheel controls:
Audio button 99
Trip button 81
Enter button 81
G. Horn pad 61
H. Warning lights, gauges and indicators 63
I. Steering wheel controls:
Bluetooth® phone button 99
Navigation button 99
Volume/mute switch 99
J. Lever for:
Turn signals 92
High/low beam 90
Cruise control 186
K. Lamp control 89
L. Ignition lock/switch (behind steering wheel) 170
M. Steering wheel adjustment 60
N. In-car temperature sensor 166
O. Infotainment system controls 98
P. Storage compartment 44
Dual fuel (LPG) selector switch ... 196
Q. Climate control switches 160
R. Infotainment screen 98

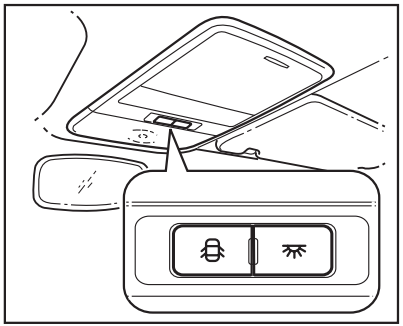
Instrument panel overview

(SV6, SS, SS V-Series)



A. Glove box 44
B. Vents..... 160
C. Sunlight sensor..... 166
D. Hazard warning flasher..... 91
E. Lever for wipers/washers..... 61
F. Steering wheel controls:
Audio button 99
Trip button..... 81
Enter button..... 81
G. Horn pad..... 61
H. Warning lights, gauges and indicators 63
I. Steering wheel controls:
Bluetooth® phone button..... 99
Navigation button..... 99
Volume/mute switch..... 99
J. Lever for:
Turn signals 92
High/low beam..... 90
Cruise control 186
K. Lamp control..... 89
L. Ignition lock/switch (behind steering wheel) 170
M. Steering wheel adjustment 60
N. In-car temperature sensor 166
O. Infotainment system controls..... 98
P. Storage compartment 44
Q. Climate control switches..... 160
R. Infotainment screen..... 98

Interior lighting



: On/off

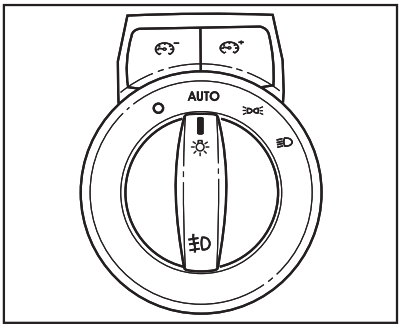
: Door activated

Dome lamp, see page 93.

Cabin storage area lamp, see page 93.

Glove box lamp, see page 94.

Exterior lighting



O: Off

AUTO: Automatic headlamps

: Park lamps

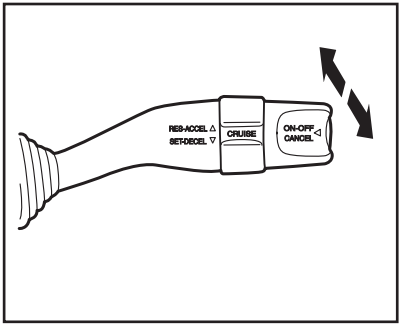
: Headlamps

: Fog lamps

: Instrument lighting dimmer

Exterior lighting, see page 89.

High/low beam



High beam: Push lever

Low beam: Pull lever from high beam position

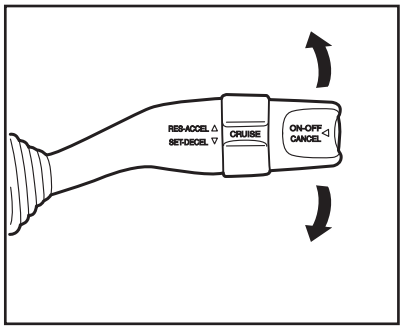
Headlamp flash: Pull lever

The high beam lamps can be flashed even if the headlamps and/or ignition are off.

Exterior lighting, see page 89.

High/low beam, see page 90.

Turn signals



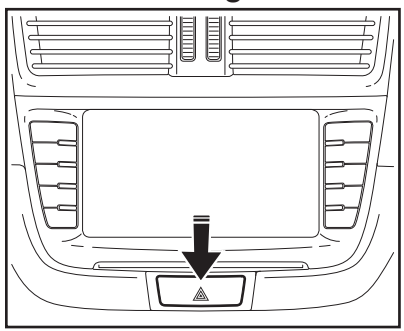
Left: Lever up

Right: Lever down

Exterior lighting, see page 89.

Turn signals, see page 92.

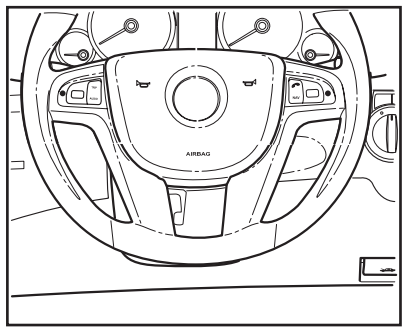
Hazard warning flasher



Press ⚠ to turn the hazard warning flasher on and off when the ignition is in any position.

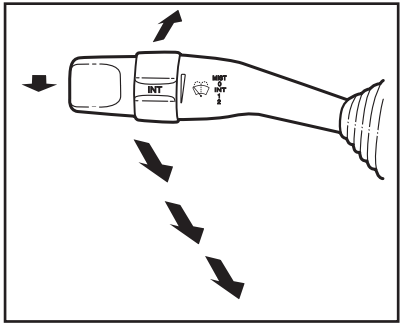
Hazard warning flashers, see page 91.

Horn



Press on either side.

Washer and wiper systems



Mist: Wipers cycle while the lever is held up

0: Off

INT: Intermittent wipe

1: Slow

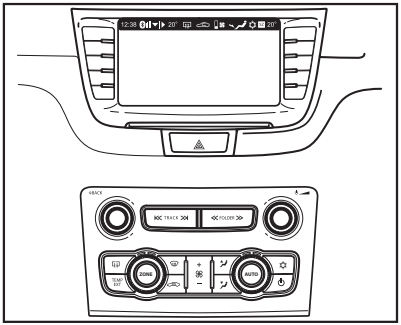
2: Fast

Pull to wash the windscreen. The wipers will cycle for a short time.

Windscreen wiper/washer, see page 61.

Washer fluid, see page 219.

Climate control



The climate control panel is located in the centre of the dashboard.

Settings for the driver and passenger can be adjusted independently.

Climate control, see page 159.

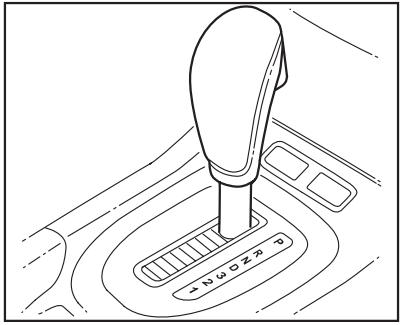
Air conditioning system, see page 160.

Windscreen demister, see page 164.

Rear window demister, see page 164.

Transmission

4 speed transmission



P: Park

R: Reverse

N: Neutral

D: Drive

3: 3rd gear

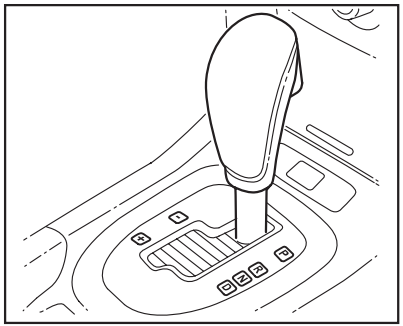
2: 2nd gear

1: 1st gear

Automatic transmission, see page 172.

Sport shift mode, see page 175.

6 speed transmission



P: Park

R: Reverse

N: Neutral

D: Drive

+/–: Active select mode (A/S)

For A/S mode, move the shift lever to position **D** then push to the left.

Briefly pull or push the lever rearward or forward and release.

Automatic transmission, see page 175.

Active select mode, see page 179.

Manual transmission

Manual transmissions have six forward gears and a reverse gear. The shift pattern is shown on top of the shift lever.

To select **R**, move the shift lever sideways against spring pressure to engage reverse gear.

Manual transmission, see page 180.

Manual operating, see page 181.

Starting off

Check before starting

- Check that windows, mirrors and lamps are clean.
- Visually check tyre inflation. Check the tyre pressures each week.
- Ensure that doors are closed and secured.
- Position your seat for comfortable driving.
- Adjust rear view mirrors.
- Fasten seat belts.
- Check that the warning indicators illuminate when turning the ignition on.

Starting and operating, see page 167.

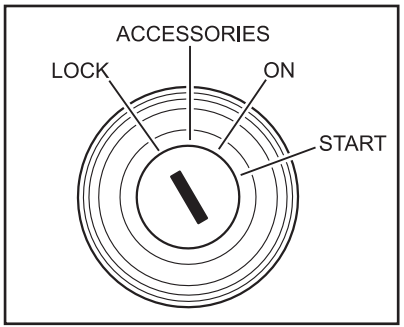
Starting the engine, see page 171.

Starting the engine

⚠Warning

Do not switch the engine off while the vehicle is moving as there will not be any power assist for brakes or steering.

Never remove the key while the vehicle is moving, as this will lock the steering.



LOCK: The key is inserted and removed only from the LOCK position.

ACCESSORIES: When the key is in the ACCESSORIES position, the audio system and wipers operate.

ON: When the key is in the ON position, the engine is ready to start and all electrical systems are active.

Do not leave the switch in the ON position for a prolonged period, unless the engine is running, otherwise the vehicle battery will discharge.

START: Turn the key to the START position momentarily and then release.

The engine starts automatically.

The key returns to the ON position when released.

Ignition positions, see page 170.

Parking

1. Apply the park brake.
2. Automatic transmission: Select position **P**.

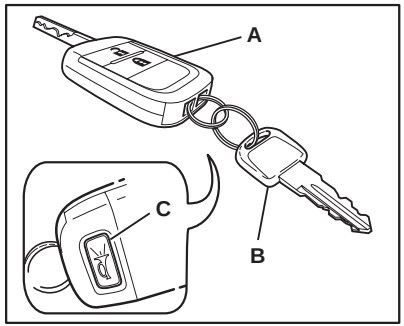
   Manual transmission: If facing uphill or on flat ground, select 1st gear. If facing downhill, select reverse gear.
3. Shut the windows.
4. Turn the ignition off and remove the key.
5. Press on the key to lock the doors and to arm the alarm system.

Keys, doors and windows

Keys and locks 15
Doors 19
Vehicle security 23
Exterior mirrors 25
Interior mirrors 25
Windows 26

Keys and locks

Keys



The key (A) operates the locks and the ignition, except for the glove box (B).

- Press (A) to lock the doors and to arm the alarm system.
- Press (A) to unlock the doors and to disarm the alarm system.

See Doors on page 19.

Panic/vehicle locate button

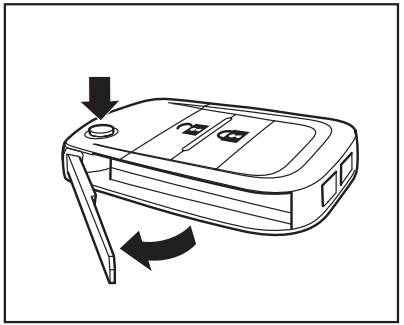
- To locate the vehicle, press (C) briefly.

  The exterior lamps will flash and the horn will chirp.
- In an emergency, press and hold (C) for at least 2 seconds.

  The horn will sound and the turn signals will flash.
- To cancel, press (C) or insert the key and turn the ignition on.

Foldaway key blade

The vehicle may have a foldaway key blade.



1. Press the button to extend the key blade.
2. To retract the key blade, press the button and fold the blade into the key.

Note

- The key engages audibly.
- A fixed blade key is supplied as the second key.

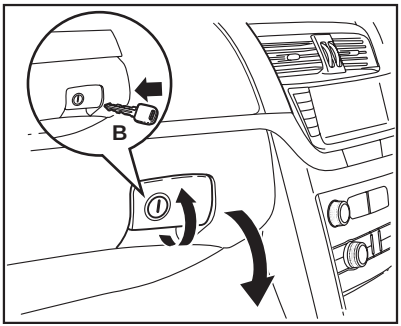
Matching transmitter(s) to your vehicle

Two keyless entry transmitters are coded to the vehicle.

If the vehicle's key is lost, inform a Holden Dealer immediately so the vehicle can be reprogrammed and will no longer recognise the missing key.

Additional transmitters also require re-coding to match the new transmitter.

Glove box key



The glove box (B) key locks and unlocks the glove box.

Valuables can be locked in the glove box and the key taken with you, separately from the ignition key.

Personal identity keys

The vehicle may have personal identity keys. Two sets of settings can be stored.

- All features can be customised. See Vehicle personalisation on page 85.
- Settings are stored when a personal identity key is removed from the ignition.
- Press to recall the settings.

The features remembered by each of the two memories are:

- Climate control settings
- Radio settings
- Trip computer settings

Features revert to the last setting used for each key.

Note

- Two different memories are available, memory one and memory two.

  If a third key is made, the third key becomes memory one and the other two keys become identical memory two keys.
- The personal settings will not be applied until the button is pressed on the key and is identified.
- If the vehicle battery has been disconnected, some settings may be forgotten.

  The adjustments will be remembered the next time the features are adjusted.

About the keys

- The remote control in the key has a range of approximately 10 metres.
- The range depends on the charge of the key battery, on ambient conditions, the key's location and the area between them.
- If the key buttons do not work, move closer to the vehicle.
- Take care that no button is pressed unintentionally, especially when the vehicle is out of sight.
- Metallic window tint reduces the range of the key.
- on the key functions when in the ignition, in any position, and when removed from the vehicle.
- If a door is open when is pressed, the horn will chirp five times.

- The key buttons may not work if the vehicle is parked near strong radio activity, such as under TV towers (most likely in high lookout car parks).
- Ensure that other keys on the key ring are not between the key and the vehicle.
- Always store spare keys in a safe, dry place.
- Do not disassemble the keys.
- At times, a decrease in range may occur, which is normal.
- If the transmitter does not work:

  You may need to stand closer during rainy or snowy weather.

  Other vehicles or objects may be blocking the signal.

  If you are still having trouble, contact a Holden Dealer.
- The lithium battery should last approximately three years with normal use. See Replace battery in remote key on page 74.

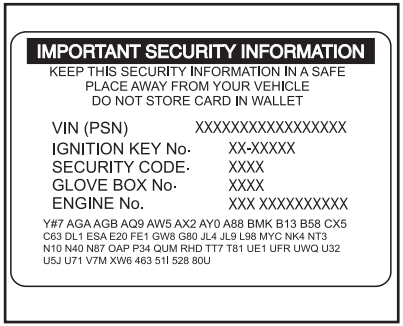
  Have a flat key battery replaced by a Holden Dealer.
- If pressing the key buttons does not work, the doors can be locked and unlocked by turning the key in the driver's door lock:

  Turn the key towards the rear of the vehicle (once) to lock the doors.

  Turn the key towards the front of the vehicle once to unlock the driver's door, twice to unlock both doors.

  Opening the door will cause activation of the alarm after a preset period of time. If this occurs, insert the key into the ignition and turn on.
- If the vehicle has a hard tonneau cover, the key locks and unlocks the cover and the doors.
- If the vehicle is delivered with only one key, or the key shows signs of damage, contact your Holden Dealer as soon as possible.

Infocard


IMPORTANT SECURITY INFORMATION
KEEP THIS SECURITY INFORMATION IN A SAFE
PLACE AWAY FROM YOUR VEHICLE
DO NOT STORE CARD IN WALLET
VIN (PSN) XXXXXXXXXXXXXXXXX
IGNITION KEY No. XX-XXXXX
SECURITY CODE. XXXX
GLOVE BOX No. XXXX
ENGINE No. XXX XXXXXXXXXX
Y#7 AGA AGB AQ9 AW5 AX2 AY0 A88 BMK B13 B58 CX5
C63 DL1 ESA E20 FE1 GW8 G80 JL4 JL9 L98 MYC NK4 NT3
N10 N40 N87 OAP P34 QUM RHD TT7 T81 UE1 UFR UWQ U32
U5J U71 V7M XW6 463 51I 528 80U

The security card lists various security numbers for the vehicle, including key numbers.

Keep the card in a safe place, away from the vehicle.

If a key is lost, a replacement can be ordered through any Holden Dealer by quoting the key code number, security code number and providing proof of ownership.

Doors

Locking and unlocking

To customise features, see Vehicle personalisation on page 85 and Security on page 23.

When locking the vehicle:

- An open door will remain unlocked.
- The horn will chirp five times.
- If the driver's door is open when the button is pressed, both doors will be locked and the driver's door lock and snib will be unlocked immediately.

Press once to:

- Lock both doors.
- The vehicle may have a hard tonneau cover.

  Lock the hard tonneau cover.
- Arm the alarm (after a short delay).
- Switch the interior dome lamp off (if the switch is set to door position).
- Flash the exterior turn signals.
- Deactivate the power windows (after a predetermined time).

Press a second time to:

- Arm the alarm immediately, bypassing the 30 second delay period.
- The horn will chirp.

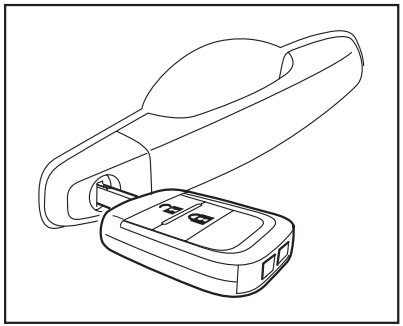
Press once to:

- Unlock either the driver's door only or both doors.
- (The vehicle may have a hard tonneau cover).
  Unlock the hard tonneau cover.
- Disarm the alarm.
- Switch on the interior dome lamp (if the switch is set to the position) and power windows for a short time.
- Flash the exterior turn signals.
- Switch on the approach lighting for a predetermined time. See Approach lighting on page 91.

Press a second time to:

- Unlock the passenger door (if pressing the first time, unlocked the driver's door only).
- Flash the exterior turn signals.
- Reactivate the approach lighting.

Manual door locks



- To lock, insert the key into the driver's door lock and turn towards the rear of the vehicle, then turn back to the vertical position and remove.

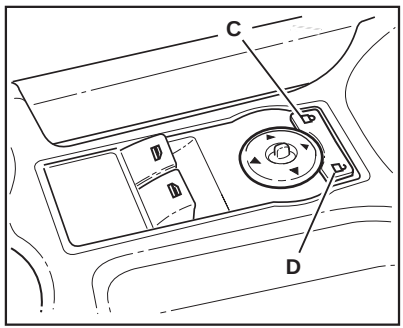
  This will lock both doors and arm the alarm system.
- To unlock, insert the key into the driver's door lock and turn it once towards the front of the vehicle to unlock the driver's door. Turn it twice towards the front of the vehicle to unlock both doors.

Note

This will not disarm the alarm system.

If the vehicle is unlocked using the key in the door lock while the alarm is armed, opening a door will activate the alarm. See Vehicle Security on page 23.

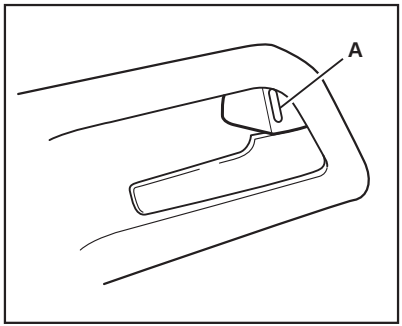
Locking/unlocking from inside



- To lock, press (C) on the centre console to lock both doors.

  This will not arm the alarm.
- To unlock, press (D) on the centre console to unlock both doors.

Door lock snibs



- Pull the snib (A) to lock the door.
- A door is locked when the lock snib (A) is flush with the door handle.
- A door is unlocked when the lock snib (A) is showing red.
- Pulling the snib (A) on either of the doors, locks only that door.
- Do not operate the driver's door lock snib when the door is open.

Free turning door locks

The door lock cylinder is designed to free turn if it is forcefully rotated without the correct key or if the correct key is not fully inserted.

1. To reset, turn the lock with the correct key fully inserted until its slot is vertical.
2. Remove the key, then re-insert it.
3. If the lock still free turns, turn the key 180 degrees and repeat the procedure.

Note

This feature is provided as a theft deterrent, to prevent the lock being forced open.

The force required to make the key free turn, reduces each time.

Do not attempt to demonstrate or test this feature.

Always remember to fully insert the key when locking and unlocking the doors.

If any problems occur, contact a Holden Dealer.

Hard tonneau cover lock

The vehicle may be equipped with a hard tonneau cover.

⚠Danger

Sitting or standing in the load area or on the surface of the hard tonneau cover while the vehicle is in motion may lead to serious injury or death.

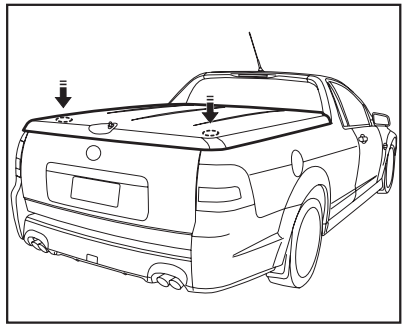
Do not carry volatile materials or liquids within the load area while the hard tonneau cover is shut as harmful fumes or gases may accumulate.

Do not drive the vehicle while the hard tonneau cover is open.

In certain conditions, small amounts of dust and/or water particles may enter the load area via the hard tonneau cover.

Do not place heavy objects on the hard tonneau cover as this may cause damage to the cover which may not be covered by warranty.

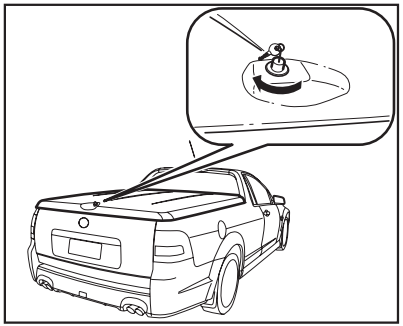
Locking and unlocking



1. Close the cover by pulling it down towards the load area.
2. Carefully press down above the two locks until it latches securely.
3. Press on the key to lock both doors and the hard tonneau cover.

   Press on the key to unlock both doors and the hard tonneau cover.

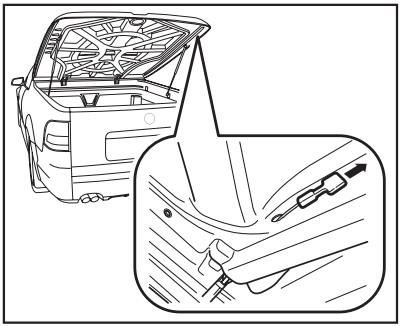
Manual unlocking



1. Insert the hard tonneau cover key into the lock.
2. Turn towards the driver side to unlock.
3. Push the lock barrel.
4. Lift to open.

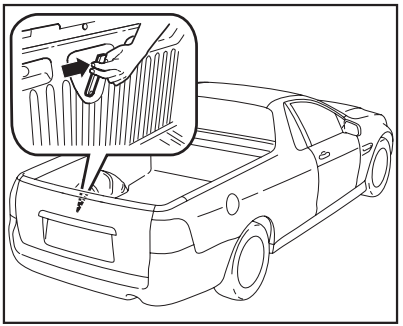
Note
If the hard tonneau cover key is lost or damaged, contact a Holden Dealer.

Emergency hard tonneau cover release



- The emergency release lever is on the underside of the cover, near the latch.
- The lever glows in the dark.
- Pull the lever to unlatch the cover.
- Push up the cover to open.

Tailgate latch



- The tailgate latch is located on the inside of the tailgate.
- To open, turn the latch towards the passenger side.
- To close, push the tailgate to the upright position until it engages.

⚠Warning

Do not operate the vehicle with the tailgate in the open position as cargo may fall from the load area and the number plate will be obscured from view.

Vehicle security

Vehicle alarm system

- When on the key is pressed or when the vehicle is locked using the key in the driver's door lock, the alarm is armed automatically (after about 30 seconds).

  The security warning lamp will illuminate for 30 seconds then begin flashing on the instrument panel.
- The alarm system is disarmed automatically when on the key is pressed.

Note

While the alarm is armed, it will activate if:

- Either door is opened.
- Either door is unlocked without pressing on the key.

Activate/deactivate

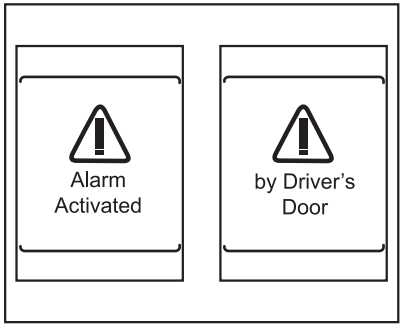
If activated, the alarm sounds and the turn signals flash.

To deactivate the alarm, do one of the following:

- Press the button on the key.
- Turn on the ignition.
- Allow the alarm to time out after about 30 seconds and reset itself, to guard against further break-in attempts.

Anti-theft alarm system

If the horn chirps when on the key is pressed, an attempted break-in has occurred.



- If the alarm has been activated, the **Alarm Activated** animated symbol is displayed for about 1 second followed by an animated symbol showing which trigger point has activated the alarm.
- If there is more than one trigger point, an animated symbol for each of them will follow.
- Each animated symbol will be displayed for about 1 second before the display returns to **Alarm Activated**.

- The animated symbols are shown in a continuous cycle until the **TRIP** button is pressed.

The following messages are possible depending upon the model and what has activated the alarm:

- **by Bonnet**: if the bonnet has been opened.
- **by Passenger door**: if the passenger door has been opened.
- **by Driver's door**: if the driver's door has been opened.

Immobiliser

This vehicle is fitted with an immobiliser. It prevents unauthorised engine starting.

The ignition key will be recognised by the vehicle when the key is inserted into the ignition.

When difficulties in starting the vehicle are experienced, check the following:

- Extend the blade fully before inserting into the ignition.
- Do not have large bundles of keys attached to the ignition key.
- Do not have keys from other vehicles attached to the ignition key.
- Do not attempt to start the vehicle with a non-approved key.

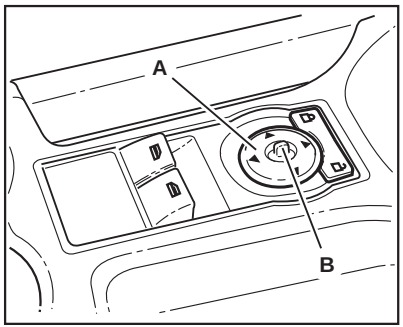
If the vehicle still fails to start, contact a Holden Dealer.

Note

- Do not disassemble the key.
- Replacement keys can only be programmed by a Holden Dealer.
- If the vehicle key is lost, inform your Holden Dealer immediately so the vehicle can be reprogrammed and will no longer recognise the missing key.
- A maximum of four keys can be programmed to suit one vehicle.

Exterior mirrors

Power mirrors



To adjust the external rear view mirrors, turn the ignition on and use the switches in the centre console:

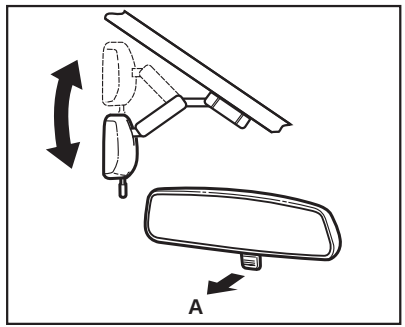
- Move switch (B) to the right to operate the driver side mirror.
- Move switch (B) to the left to operate the passenger side mirror.
- Press the arrows on switch (A) to adjust the mirror in the direction the arrow is pointing.
- Move switch (B) back to its centre position to deactivate switch (A).

⚠Warning

The passenger side mirror is convex shaped, to provide a wider view. Objects in this mirror are closer than they appear.

Interior mirrors

Rear view mirror



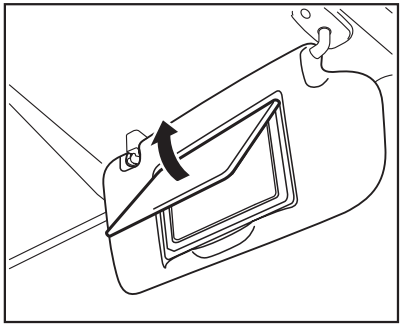
Push the lever (A) on the lower edge of the mirror towards the front of the vehicle, then adjust the position of the mirror.

To reduce headlamp glare from following vehicles, pull the lever (A) towards the rear of the vehicle.

Note
The rear view clarity is reduced when the mirror is set to the anti-glare position.

Return the lever back to its original position as soon as the glare has disappeared.

Sun visor mirrors



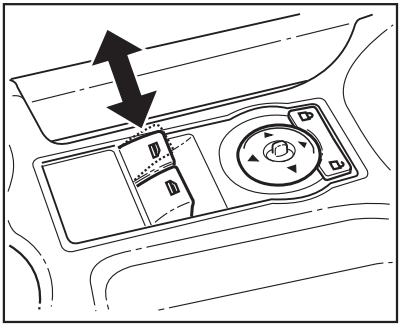
To view the mirror, pull the cover up from the lower edge.

Windows

Power windows

⚠Warning

Before operating the power windows, check they are free of obstructions and that passengers and pets are not in the proximity of the moving window.



The power window switches are located between the seats.

Push and hold or pull and hold the required button, to raise or lower a window.

The window stops moving up as soon as the button is released.

The power windows can be operated:

- When the ignition is turned on.
- When on the key is pressed from inside the vehicle. The windows can be operated for 10 minutes, provided no door is opened.
- If either door is opened within 45 seconds from the ignition key being turned to the lock position, the windows remain operational for 45 seconds.

The power windows are disabled when:

- Either door is opened after 45 seconds, from the ignition key being turned to the lock position.

The vehicle may have automatic up/down power windows.

Auto down

- Press and hold the switch down for at least half a second, then release.
- Press down again or pull up the switch to interrupt the automatic operation.
- Rock the button to open the window in short steps.

Auto up

- Pull and hold the switch up for at least half a second, then release.
- Press down or pull up the switch again to interrupt the automatic operation.
- Rock the button to close the window in short steps.

Note
If the window encounters any resistance during closing, it will stop immediately and open again.

Seats, restraints

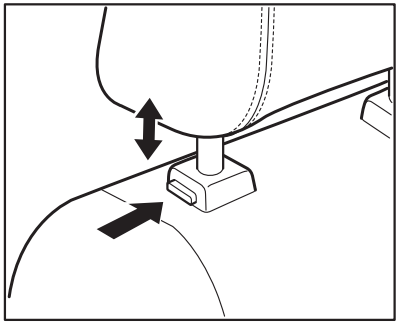
Head restraints 28
Seats 29
Seat belts..... 31
Airbag system..... 34
Child restraints..... 39

Head restraints

⚠Warning

This safety feature is not intended to rest the head upon. It is solely for the reduction of whiplash neck movement in an accident involving your vehicle.

The centre of the head restraint should be at eye level, never at neck level.



Lift the head restraint up to raise it.

Push the locking button and push the head restraint down to lower it.

The head restraints cannot be removed.

Seats

Seat position

⚠Warning

To avoid reducing the effectiveness of seat belts, seatbacks should only be upright or at most semi-reclined when the vehicle is moving.

⚠Warning

Do not fit unauthorised seat covers, unauthorised seat covers may impair the operation of the side impact airbags (SIAB).

Always sit centrally in the seat.

Do not place any object between the seat and the door. See Airbag system on page 34.

Power seat adjustment

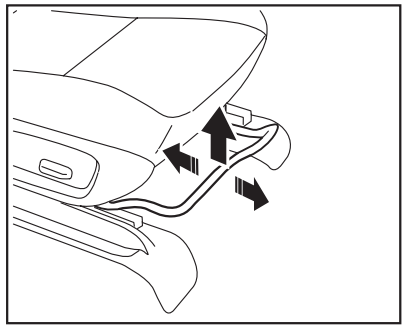
⚠Warning

Do not adjust the driver's seat when the vehicle is moving as the seat could move suddenly causing the driver to lose control.

Seat adjustment

The vehicle may have the following levers and switches for seat adjustment.

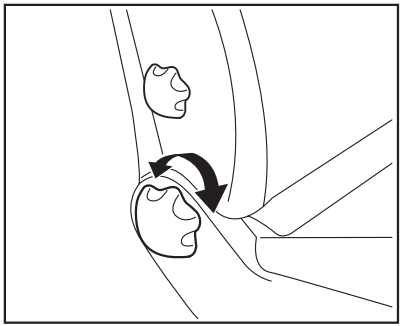
Forwards/backwards



Move the seat forwards or backwards by lifting the bar at the front and sliding the seat.

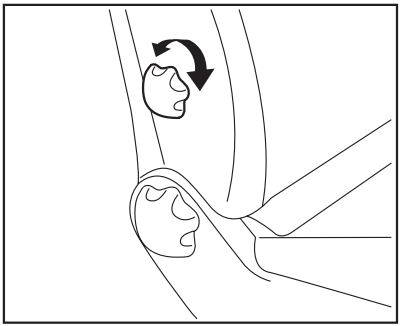
Release the bar to re-engage the latch.

Recline



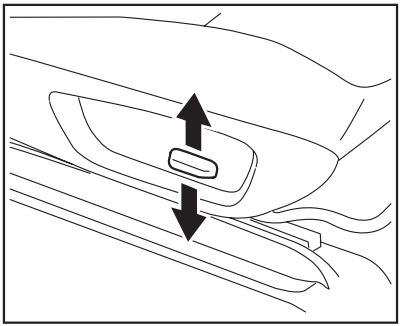
Recline the seatback by rotating the lower hand wheel.

Lumbar



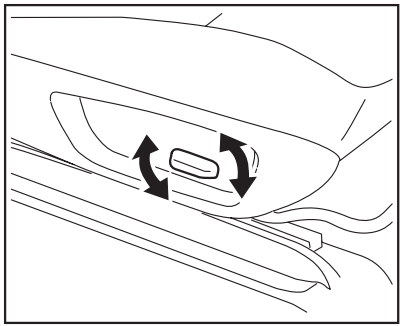
Adjust the lumbar support by rotating the upper hand wheel.

Up/down



Raise or lower the seat by moving the horizontal switch up or down.

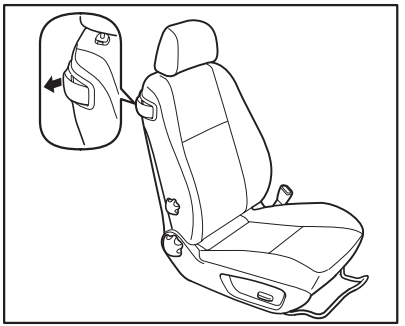
Tilt



Tilt the seat up at the front by tilting the front of the horizontal switch up.

Tilt the seat down at the back by tilting the back of the horizontal switch down.

Tilt seatback



Tilt the seat forward by pulling the tilt latch lever.

Return the seat to the upright position to engage the latch.

⚠Warning

Do not adjust the tilt latch lever while driving.

Ensure the tilt latch lever is locked and the seat is upright before driving.

Seat belts

How to wear seat belts properly

⚠Warning

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid.

Belts should not be worn with straps twisted.

Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

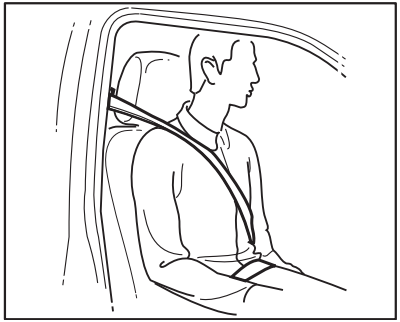
Three point belt

Fitting

The belt should not be twisted. It should lie flat and fit firmly across your hips.

1. Pull the metal tongue across your body.
2. Clip it into the buckle.
3. When the metal tongue is locked safely into place you will hear a click.
4. Give a gentle pull on the buckle to ensure full engagement.
5. Settle the belt at the hip.
6. Run your hand under the sash from hip to shoulder.

The belt should fit comfortably. Any extra belt length retracts automatically.

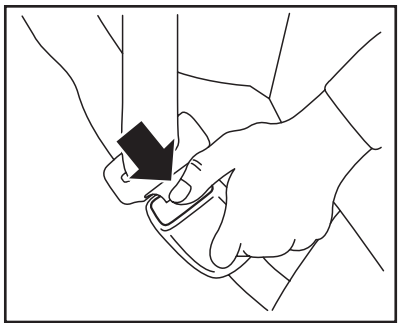


Note

For your safety, wear the lap section of the seat belt as low as possible on your hips, not on your waist or abdomen.

The Emergency-locking Retractor Belt allows you to move while the vehicle is travelling normally, but locks immediately on fast braking, impact with a solid object or any quick movement by the wearer.

Removing



1. Press the release button on the buckle.
2. Allow the belt to retract.
3. Check that it fully retracts without twisting or turning.

Seat belt use during pregnancy

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear a seat belt.
A pregnant woman should wear a three point belt with the lap portion of the belt worn as low as possible below the rounding of their stomach, throughout the pregnancy.

Seat belt care

⚠Warning

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

Replacing seat belts after a crash

⚠Warning

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

Airbag system

Airbags and child restraints

⚠Warning

WARNING – EXTREME HAZARD

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

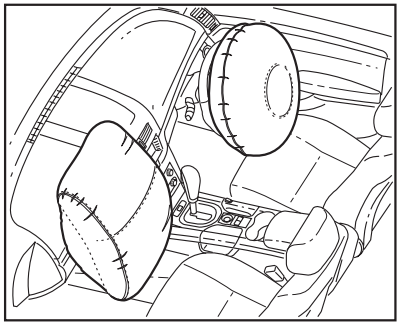
The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

⚠Warning

Airbags are part of the supplemental restraint system (SRS) as they assist, but do not replace seat belts. Airbags do not deploy in every accident. Various factors dictate whether they deploy including speed, angle of collision and object hit. Airbags are not designed to inflate if the vehicle is hit from the rear or is involved in a rollover. Seat belts must be worn by passengers whenever the vehicle is moving.

Airbags inflate with great force. If you are too close to an inflating airbag it may cause injury.
Seat belts help keep you in position for airbag inflation in the event of a collision.

Airbag system



The airbag system consists of one airbag in the steering wheel, and one in the dashboard on the passenger side. These are identified by the word **AIRBAG**.

⚠Warning

The horn pad must not be covered with adhesive or any other material.

The driver should adjust the seat as far rearward as possible while still maintaining control of the vehicle.

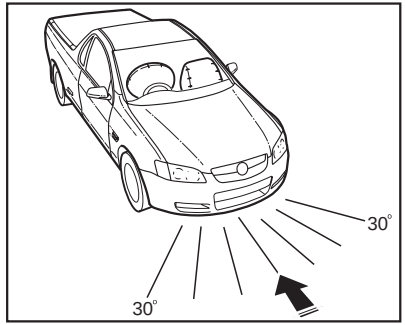
The wording **AIRBAG** above the glove box and a label attached under the sun visor indicate that a passenger airbag is fitted.

⚠Warning

Do not place any objects on or over the dashboard or between an airbag and yourself.

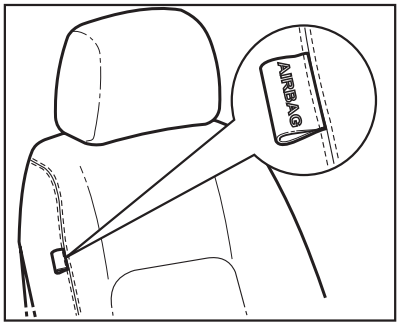
Do not hang anything from the sun visor or mirror.

Passengers must not rest their feet on the dashboard.

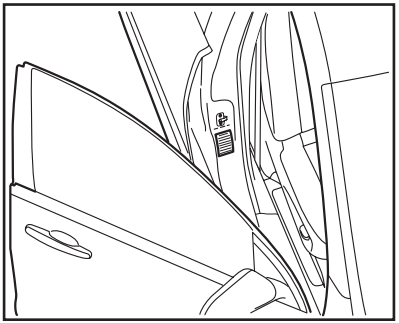


Airbags will inflate in certain severe frontal or near frontal impacts. Airbags are not designed to inflate if the vehicle is struck from the side, rear or, in rollovers. Always wear a seat belt.

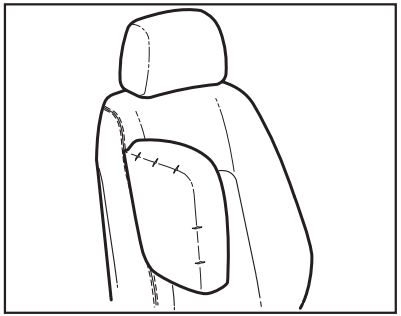
Side impact airbags (SIAB)



SIAB are stored in the sides of the seats, the side closest to the door.



SIAB are identified by labels with the words **AIRBAG** on the seatback and **FRONT SEAT SIDE IMPACT AIRBAGS** on the door pillar.



Note
SIAB deploy in most, but not all, severe side impacts.

Because there is limited time available to detect some side impacts, it is not possible to deploy the SIAB in all serious accidents.

A SIAB will deploy in certain severe side impacts. SIAB are not designed to inflate if the vehicle is struck from the front, rear, or in rollovers. Always wear a seat belt.

⚠Warning

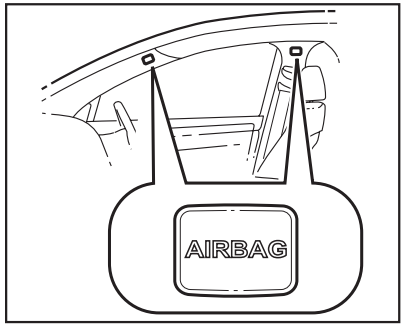
Do not fit unauthorised seat covers as they may impair the deployment of the Side Impact Airbags (SIAB).

Do not position your body or any object (including pillows) between the seat and the door.

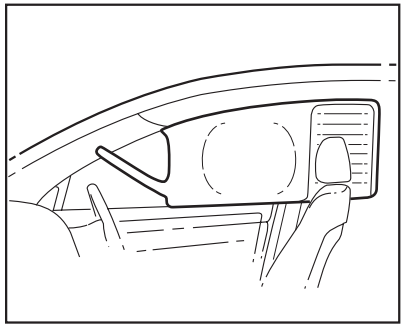
Do not lean on, or sleep against, the doors. Always sit centrally in the seat.

Always wear a seat belt.

Curtain airbag system



Curtain airbag labels are on the vehicle in the positions shown.



Note

Curtain airbags deploy in most, but not all, severe side impacts.

Because there is limited time available to detect some side impacts, it is not possible to deploy the curtain airbags in all serious accidents.

Curtain airbags are not designed to inflate if the vehicle is struck from the front, rear, or in rollovers. Always wear a seat belt.

⚠Warning

Do not position your body or any object (including pillows) in the area in which the airbag inflates.

There must be no objects in the area in which the airbag inflates. Refer to the previous illustration.

Do not lean on, or sleep against the doors. Always sit centrally in the seat.

Always wear a seat belt.

What will you see after an airbag inflates?

Airbags inflate and deflate within milliseconds.

Fifteen seconds after any airbag or seat belt pretensioner has been activated (the vehicle has stopped and provided there is battery power), the vehicle will:

- Switch off the engine.
- Switch off the fuel pump.
- Switch on the hazard lamps.
- Switch on the interior lamp.
- Unlock the doors.

Switch the ignition off and then on if restarting the engine is required.

Notices for customer installed equipment

⚠Warning

Fitting other types of roo/ nudge bars may affect crash performance, airbag performance and engine cooling. See Fitting roo/nudge bars on page 202.

SRS check

The on the instrument panel illuminates for a few seconds when the ignition is turned on. This indicates the SRS is operational.

Contact a Holden Dealer immediately:

- If does not illuminate when the ignition is turned on.
- If illuminates when driving.
- If the warning **Airbag Fault** is displayed on the instrument panel.

The SRS may not function correctly in the event of an accident. See Airbag system on page 34.

Replacing SRS parts after a crash

Note
After an accident where the SRS has deployed, the systems, associated parts and hardware must be checked and replaced as required.

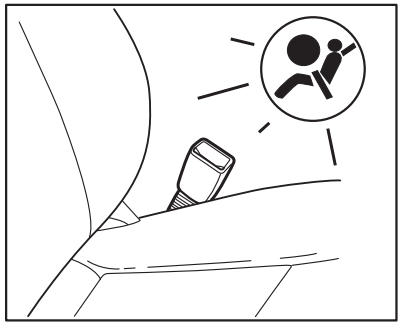
Seats, associated parts and hardware must also be checked and replaced as required.

The SRS should also be inspected after an accident if:

- The dashboard area or steering wheel is scratched, cracked or damaged.
- The seats and upholstery are damaged.
- The headliner or trim panels are damaged.

It is recommended that this work be carried out by a Holden Dealer or approved repairer.

Seat belt pretensioners



Seat belt pretensioners are part of the SRS. In certain severe collisions the seat belts are tightened by the seat belt pretensioners.

Child restraints

⚠Warning

WARNING – EXTREME HAZARD

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

⚠Warning

This manual provides you with general information concerning child restraints only.

The driver is required by law to ensure that passengers are suitably restrained. In most States and Territories of Australia and New Zealand, specific laws may exist which require children to be seated in approved child restraints.

Holden strongly recommends that you refer to your specific State or Territory regulations to determine which child restraint is suitable for your child.

⚠Warning

Always ensure that the seat belt fits firmly around the child restraint.

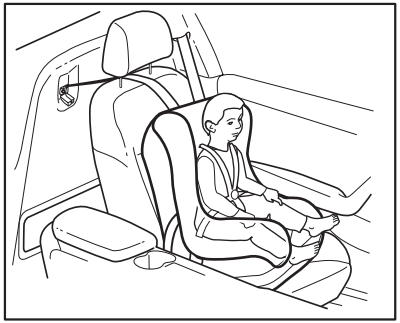
If a child cannot see out of the window, do not raise him/her by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

⚠Warning

Always follow the child restraint manufacturer's fitting instructions when installing a child restraint into the vehicle.

Note
Refer to the relevant legislation, an approved child restraint fitting station or capsule manufacturer's information for the recommended type of child restraint to use.

Young children



Forward facing child seats are for use when the child is able to sit and easily hold their head upright.

⚠Warning

Always move the passenger seat as far back as it will go before installing a child seat. This locates the child as far from the passenger airbag as possible.

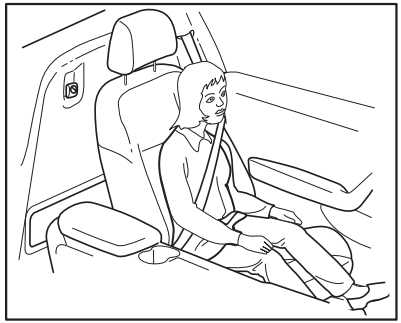
Booster seats

Booster seats are for when children outgrow a typical forward facing child seat, but are still too small for three point seat belts.

⚠Warning

Always move the passenger seat as far back as it will go before installing a child seat. This locates the child as far from the passenger airbag as possible.

Older children



A child should use a normal three point seat belt only when:

- They can sit against the back of the seat with knees bent comfortably at the edge of the seat.
- The lap belt rests low and snug across the hips, not across the stomach.
- The sash belt is centred on the shoulder and chest.
- They are able to stay seated like this for the entire trip.

Where to put the restraint

⚠Warning

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses, or for attaching other items or equipment to the vehicle.

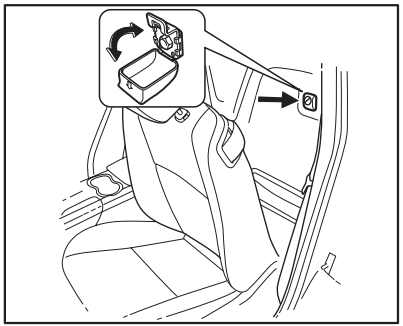
Only child restraints that have clips to attach to the vehicle's anchorage fitting (as shown in the following illustrations) are to be used. Earlier types of child restraints may not attach securely to this type of anchor.

Use only Standards Australia approved child restraints and harnesses. Only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

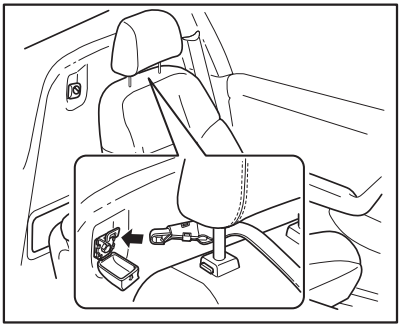
Where legally allowable, you may install a forward-facing child restraint in the passenger's seat, but always move the seat as far back as it will go.

Child restraint installation locations

Anchorage points



- Your vehicle has a single anchorage point for the fitment of a child restraint.
- The anchorage fitting is located behind the passenger seat on the cabin wall.



- Lift the head restraint up to thread the tether strap through.

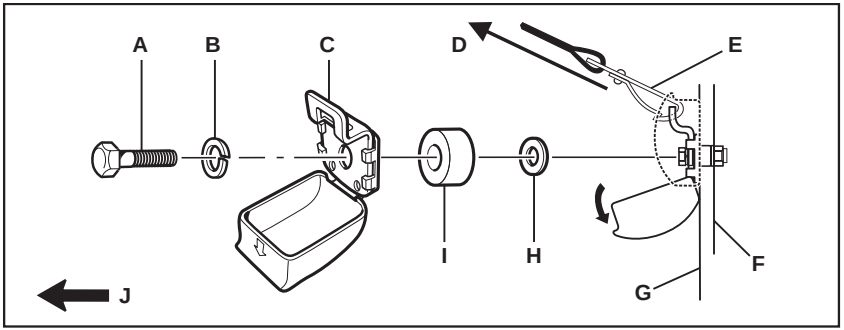
Note
Adjust the head restraint to the appropriate height once the child restraint is removed. See Head restraints on page 28.

Holden child restraint anchor fitting

Caution

If the child restraint anchor fitting is ever removed ensure that the bolt is securely tightened to 20 ± 5 Nm (Newton metres). Check with a Holden Dealer if unsure.

If unsure about installing a child restraint anchor fitting, contact an approved restraint fitting station or a Holden Dealer.



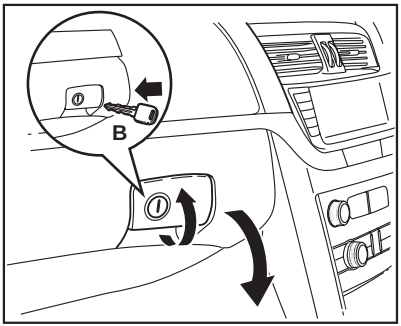
A. 30 mm long bolt
B. Lock washer
C. Anchor fitting
D. To child restraint
E. Attaching clip
F. Cabin wall/sheet metal
G. Cabin wall trim
H. Paper assembly washer
I. 10 mm spacer
J. Front of vehicle

Storage

Storage compartments 44
Additional storage features 47
Loading information 54

Storage compartments

Glove box



The glove box is located in the dashboard, in front of the passenger's seat.

To open, pull the handle towards you. To close, push the lid firmly back into place.

A glove box key is provided for locking. See Glove box key on page 16.

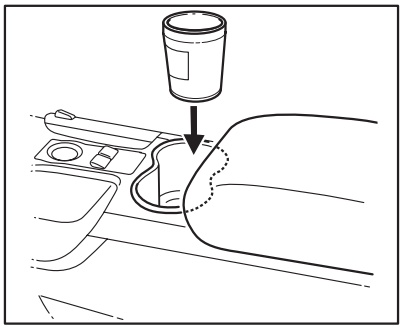
Cup holders

Cup holders are designed for holding standard size soft drink cans, small size bottles and cups with lids.

⚠Warning

To avoid scalding, never place hot drinks in the cup holders.

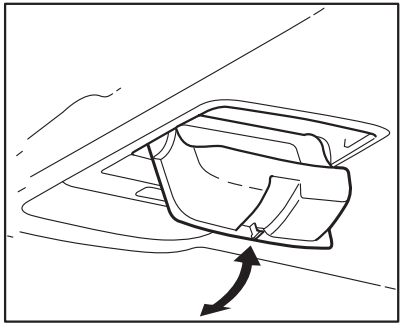
Cup holders



The cup holders are located forward of the centre console.

The rubber cup holder lining can be removed for cleaning.

Sunglasses storage



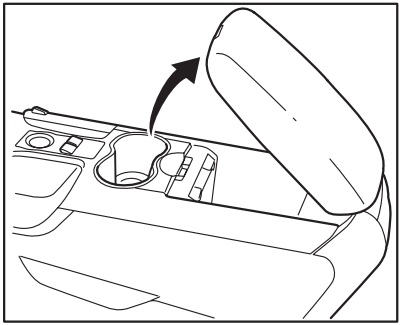
The vehicle may have a sunglasses holder.

It is located in the roof and is designed to accommodate one pair of sunglasses.

To open, push in the rear of the lid and release it.

To close, move the holder back to its original position and press in the rear of the lid to engage the latch.

Centre console



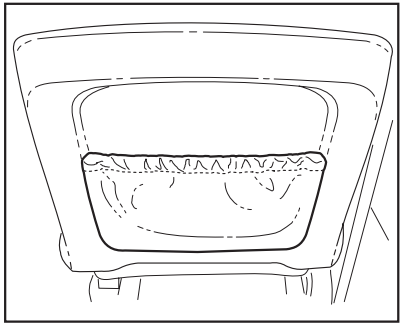
A storage area is located under the armrest.

To open, lift the latch on the underside of the front lip. Do not force the lid backwards.

There is a coin holder towards the front of the console.

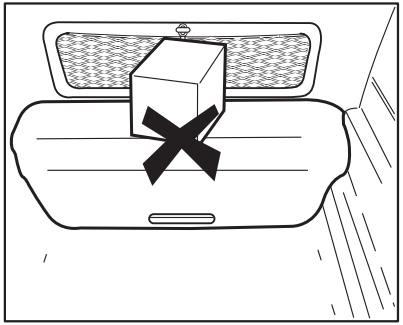
The console provides space to accommodate a standard mobile telephone/charger, which can be plugged into the power socket located inside the console. See Power outlets on page 62.

Seatback pockets



The storage pockets are on the rear of the seats.

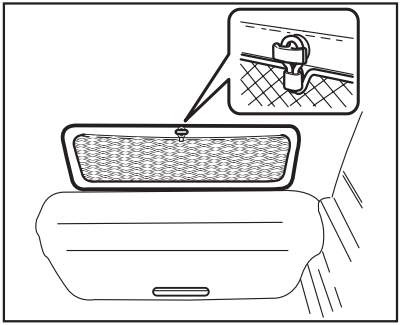
Battery storage compartment



⚠Warning

Do not place any heavy, hard or sharp objects on top of the battery storage compartment behind the passenger seat.

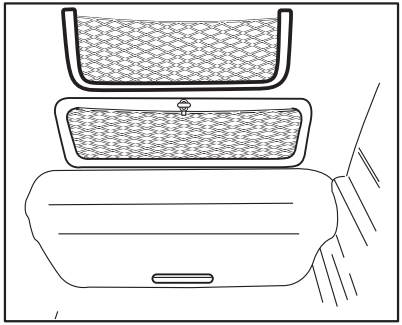
Cabin storage compartments



- Storage compartments are located at the rear of the cabin.
- Store lightweight items such as street directories, folders and maps not exceeding 2 kg in total.
- Ensure that the netting, netting loop and hook are secure and restraining items.
- Do not store heavy and/or sharp objects (e.g. loose tools) in these compartments.

Net pocket

The vehicle may have a net pocket.

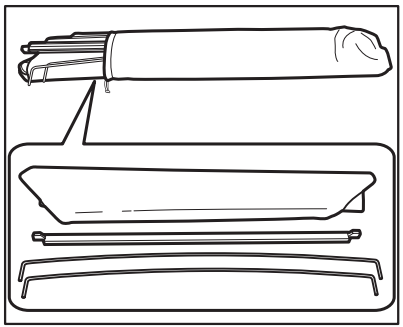


The net pocket is located at the rear of the cabin, for the storage of lightweight items.

Additional storage features

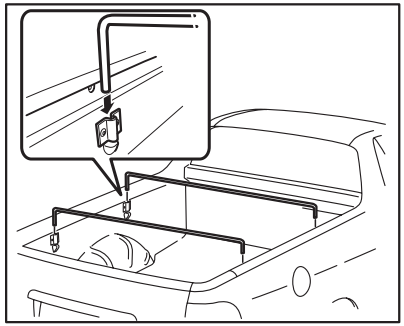
Soft tonneau cover

The vehicle may have a soft tonneau cover.



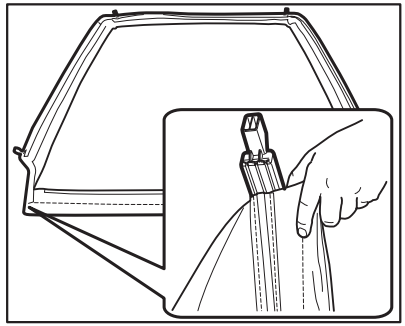
Installation:

1. Remove the cover, front bar and bows from the tonneau cover bag.



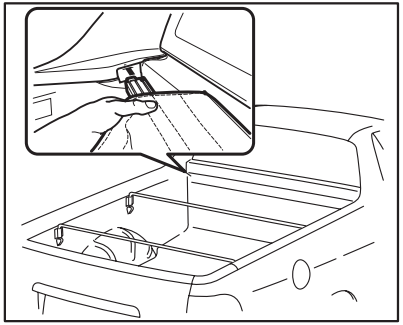
2. Slide each bow through the tonneau bow support bracket.

Note
The front bow is longer than the rear bow.



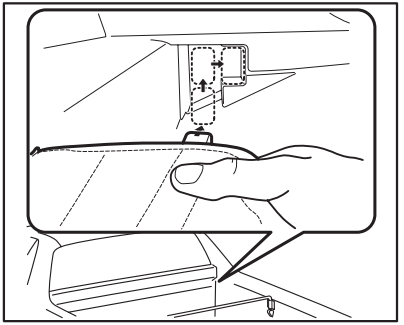
3. To attach the front bar to the tonneau cover, lay the tonneau cover out flat, with the inside facing up.
4. Using one of the three slots provided on the bar, slide the bar along the mounting strip on the forward end of the cover.

Note
When the cover is new, the centre slot should be used. As the cover ages, the other slots may be used to achieve a tighter or looser fit.

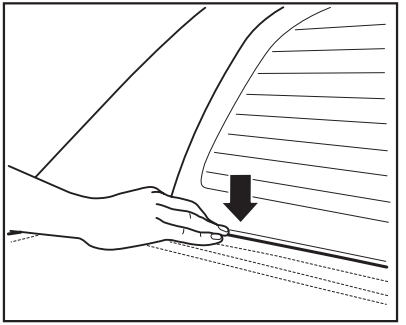


5. Place the tonneau cover roughly in position over the tray with the attached bar towards the front of the vehicle.
6. Fit one end of the bar into the slot on either the passenger or driver side.

   Do not twist or bend the front bar when fitting the tonneau cover.

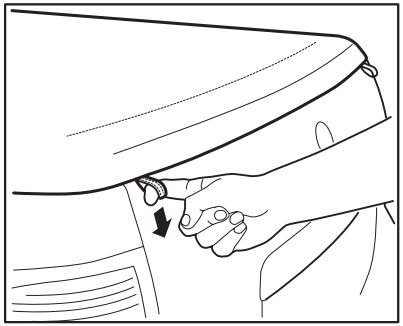


7. Position the other end of the front bar into the opposite slot and lift upwards and rearwards.

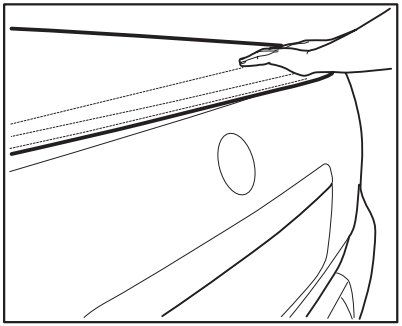


8. The front edge of the cover has a magnetic strip.

   Ensure it is seated down correctly.



9. Lay the tonneau cover over the bows.
10. Starting from the rear, use the finger loops to pull the cover's plastic strip over the slot provided around the top edge of the load area.



11. Push down with your hands to smooth the rear strip into place along the slot.
12. After the cover is attached at the rear, the same attachment method is used on both sides.
13. Begin near the front where finger loops are provided.

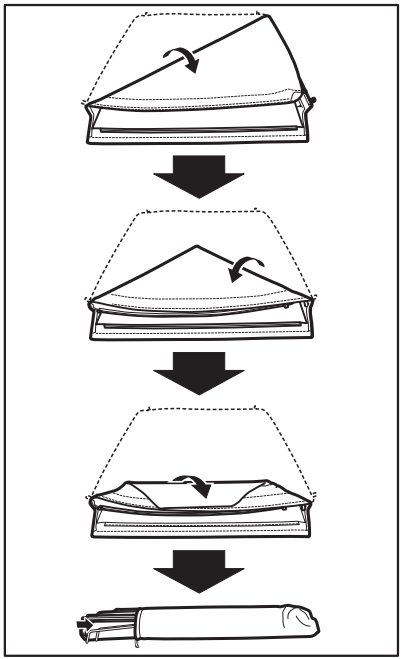
Note
The cover may be tight to fit when new.

Removal:

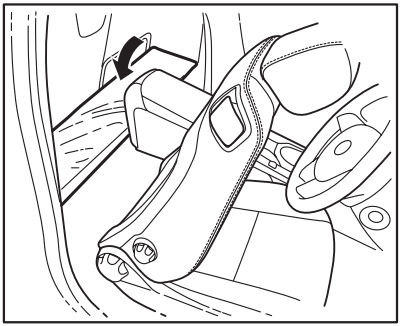
1. Using the finger loops provided, remove the cover by pulling the loops out and up.
2. From underneath the cover, remove the front bar on one side, by pushing it towards the front of the vehicle and tilting down.

   The other end of the bar will follow.

Fold the cover to ensure the plastic sides are not bent:

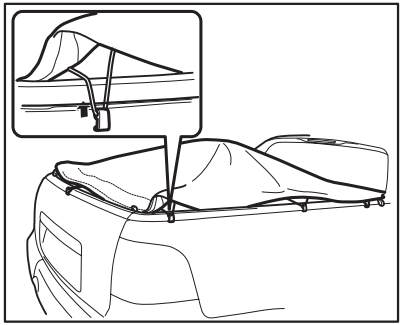


3. Lay the cover on a flat surface with the inside facing up.
4. Fold one of the rear corners up.
5. Fold the other rear corner up.
6. Fold and roll up the cover.
7. Place the folded cover, front bar and bows in the bag provided.



8. Store behind the seats.

Fitting the tonneau cover with high loads



1. Remove the two bows if required.
2. Attach the front of the cover. See Soft tonneau cover on page 47.
3. Lay the remainder of the cover roughly in position.
4. Underneath the cover there is a cord with attaching clips.

   Working around the vehicle, place the clips in the slot provided.
5. To remove the cover, pull the clips out and up.

Hard tonneau cover

The vehicle may have a hard tonneau cover.

⚠Danger

Sitting or standing in the load area or on the surface of the hard tonneau cover while the vehicle is in motion may lead to serious injury or death.

Do not carry volatile materials or liquids within the load area while the hard tonneau cover is shut as harmful fumes or gases may accumulate.

Do not drive the vehicle while the hard tonneau cover is open.

In certain conditions, small amounts of dust and/or water particles may enter the load area via the hard tonneau cover.

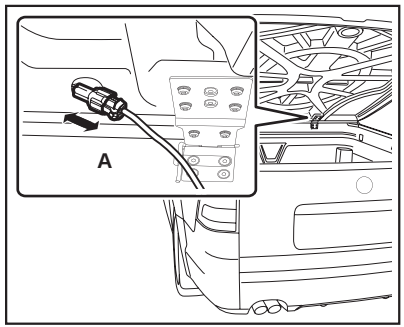
Do not place heavy objects on the hard tonneau cover as this may cause damage to the cover which may not be covered by warranty.

Removal of the hard tonneau:

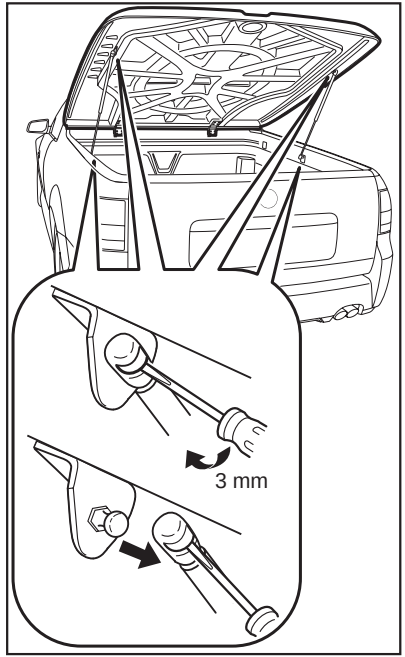
An assistant is required to remove the hard tonneau cover.

1. Open the tailgate.
2. Open the tonneau cover.

Note
Ensure there is a enough room above the vehicle.

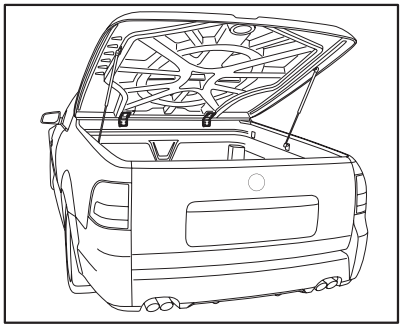


3. Locate the wiring plug (A) and disconnect.
4. With the aid of an assistant hold the tonneau cover open.

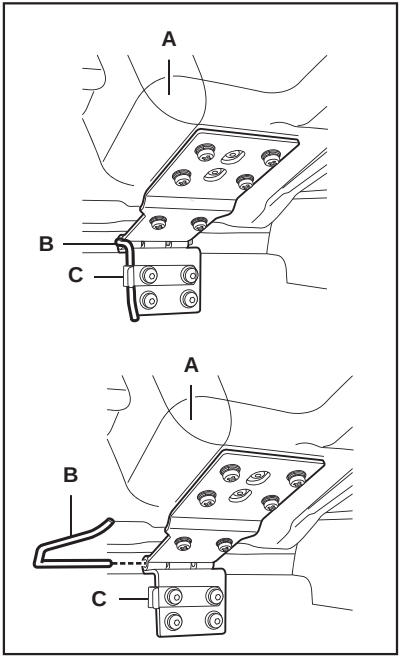


5. To remove the gas struts from the upper ball pins, use a small flat-blade screwdriver to lever the clips open approximately 3 mm.

6. While holding the screwdriver and the clip in the open position, remove the gas strut from the ball pin.
7. Lay the gas struts down in the load area.



8. Locate the hinges and the hinge pins.



9. Lift the hinge pins (B) away from the retaining clips (C).
10. Slide both hinge pins (B) towards the passenger side of the vehicle and remove.
11. Carefully lower the tonneau cover down to its closed position.

Note
Take care in strong winds.

12. Remove the cover from the vehicle and store in an upright position on its hinges to avoid damage.
13. Remove the gas struts from the lower ball pins by repeating Step 7.

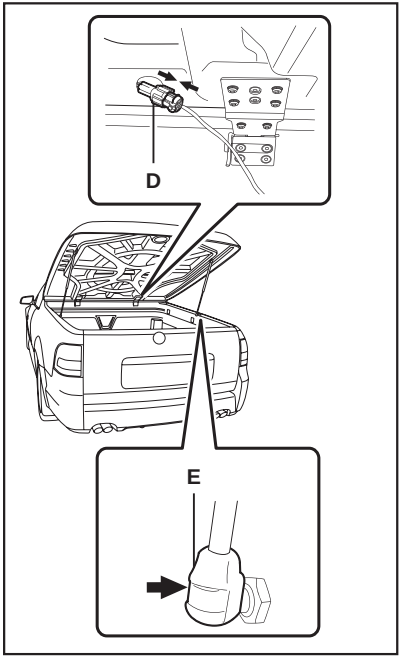
Note
Store the gas struts and hinge pins in a secure location with the tonneau cover.

Refitting of the hard tonneau:

Two people are required to lift and fit the tonneau cover onto the vehicle.

1. Fit the tonneau cover (A) and secure with the hinge pins (B) into the retaining clips (C).

   Ensure the hinge pins click into position.



2. Attach the gas struts (E) by clipping into place.

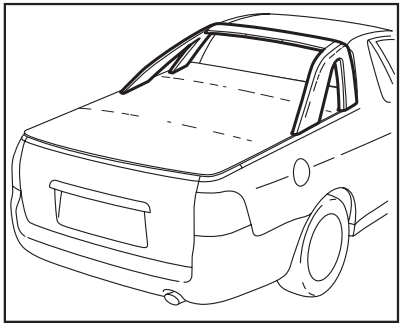
   Ensure the narrow end mounts to the vehicle.

3. Join the two wiring plugs (D) located toward the front of the vehicle.

Note

Ensure that the light turns on when the tonneau cover is open and turns off when the tonneau cover is closed.

Sports bar



The vehicle may have a sports bar.

The sports bar is an appearance item only. It does not provide additional protection in an accident and should not be used as a tie down point for loads.

Loading information

Heavy accessories

- Place heavy objects in the rear load area as far forward as possible against the rear bulkhead.
- Place the heavier objects at the bottom.
- Secure all objects in the load area to prevent movement.
- Do not place objects in front of the rear window or on the dashboard above the instrument panel.
- Do not place objects in the area where the airbags inflate.

Carrying portable gas cylinders in vehicles

⚠Warning

Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported, that a purpose-built carrying compartment be used. Ensure any transportation of gas cylinders complies with the applicable regulations.

Hard tonneau cover

The vehicle may have a hard tonneau cover.

⚠Danger

Sitting or standing in the load area or on the surface of the hard tonneau cover while the vehicle is in motion may lead to serious injury or death.

Do not carry volatile materials or liquids within the load area while the hard tonneau cover is shut as harmful fumes or gases may accumulate.

Do not drive the vehicle while the hard tonneau cover is open.

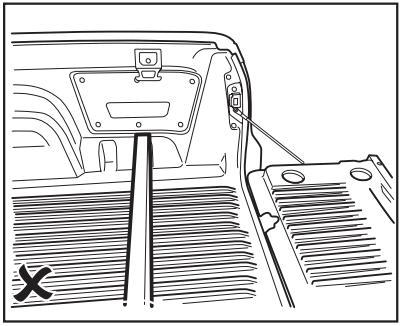
In certain conditions, small amounts of dust and/or water particles may enter the load area via the hard tonneau cover.

Do not place heavy objects on the hard tonneau cover as this may cause damage to the cover which may not be covered by warranty.

Securing cargo

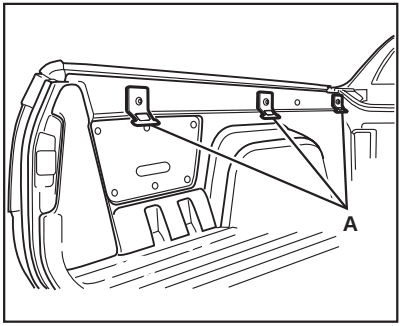
⚠Warning

Do not operate the vehicle with the tailgate in the open position as cargo may fall from the load area and the number plate will be obscured from view.



Do not use the moulded ribs in the rear load area to secure cargo.

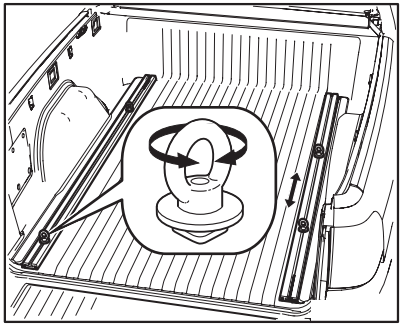
Tie points



Use the six tie points (A) to secure cargo (three on either side of the load area).

Tie down rails

The vehicle may have tie down rails for securing heavy objects.



1. To loosen the tie down eyelets, rotate anticlockwise.
2. Slide the eyelet to the desired position on the tie down rail.
3. Tighten by rotating clockwise.
4. To remove the eyelets, rotate anticlockwise to loosen and slide out the end of the rail.

   Avoid separating the two sections of the tie down eyelets.

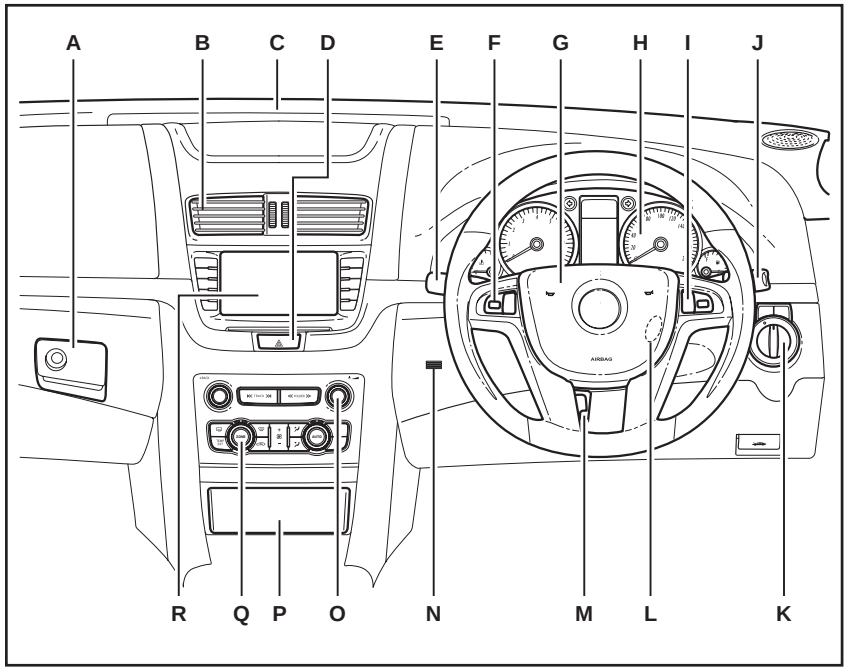
   Store eyelets in a safe location.

Instruments and controls

Instrument panel overview.....57
Controls.....60
Warning lights, gauges and indicators.....63
Vehicle personalisation.....85

Instrument panel overview

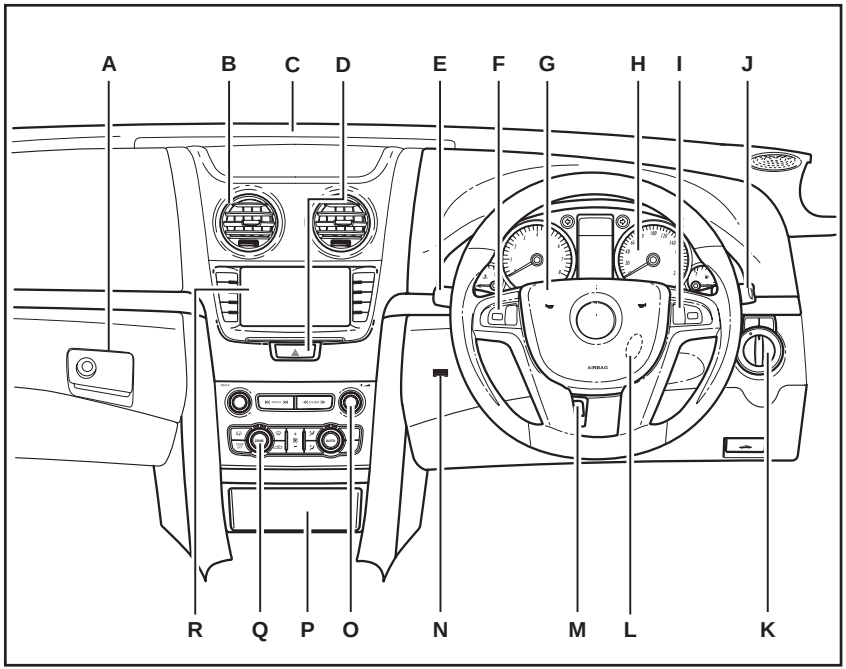
Omega



A. Glove box 44
B. Vents 160
C. Sunlight sensor 166
D. Hazard warning flasher 91
E. Lever for wipers/washers 61
F. Steering wheel controls:
Audio button 99
Trip button 81
Enter button 81
G. Horn pad 61
H. Warning lights, gauges and indicators 63
I. Steering wheel controls:
Bluetooth® phone button 99
Navigation button 99
Volume/mute switch 99
J. Lever for:
Turn signals 92
High/low beam 90
Cruise control 186
K. Lamp control (incl. headlamps, park lamps, front fog lamps and dimmer) 89
L. Ignition lock/switch (behind steering wheel) 170
M. Steering wheel adjustment 60
N. In-car temperature sensor 166
O. Infotainment system controls 98
P. Storage compartment 44
Dual fuel (LPG) selector switch 196
Q. Climate control switches 160
R. Infotainment screen 98

Instrument panel overview

SV6, SS, SS V-Series



A. Glove box 44
B. Vents 160
C. Sunlight sensor 166
D. Hazard warning flasher 91
E. Lever for wipers/washers 61
F. Steering wheel controls:
Audio button 99
Trip button 81
Enter button 81
G. Horn pad 61
H. Warning lights, gauges and indicators 63
I. Steering wheel controls:
Bluetooth® phone button 99
Navigation button 99
Volume/mute switch 99
J. Lever for:
Turn signals 92
High/low beam 90
Cruise control 186

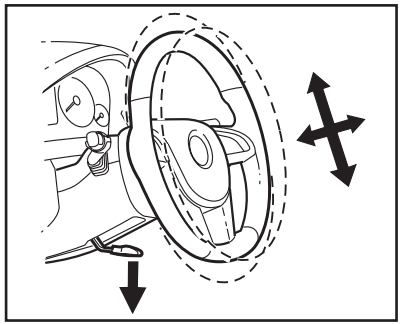
K. Lamp control (incl. headlamps, park lamps, front fog lamps and dimmer)..... 89
L. Ignition lock/switch (behind steering wheel) 170
M. Steering wheel adjustment 60
N. In-car temperature sensor 166
O. Infotainment system controls 98
P. Storage compartment 44
Q. Climate control switches 160
R. Infotainment screen 98

Controls

Steering wheel adjustment

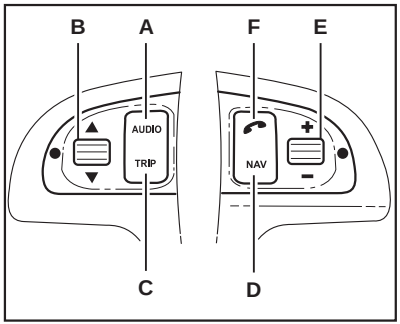
⚠Warning

Do not attempt to adjust the steering wheel while driving.



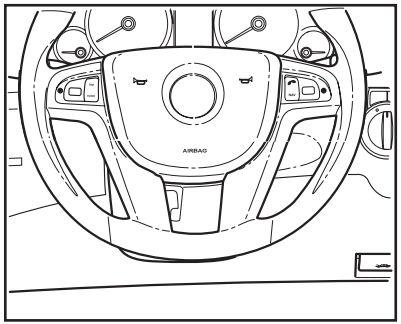
1. To unlock, move the lever down.
2. To adjust, move the steering wheel up, down, closer or away.
3. To lock, move the lever up. Ensure the steering wheel is locked in position before driving.

Steering wheel controls



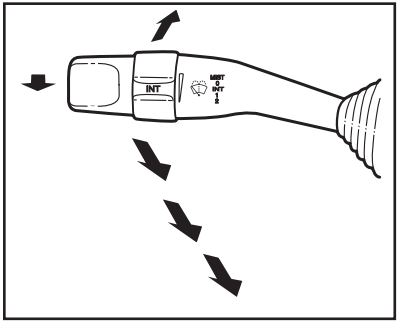
A. Audio button..... 99
B. Enter button and scroll wheel 81
C. Trip button..... 81
D. Navigation button..... 99
E. Volume/mute..... 99
F. Bluetooth® phone..... 99

Horn



Press on either side.

Windscreen wipers/washers



The wipers/washers operate with the ignition in the ON or ACCESSORIES positions.

Caution
Never operate the wipers on dry glass, as this will damage the rubber and scratch the glass.

MIST Wipers cycle while the lever is held up.

0 Off

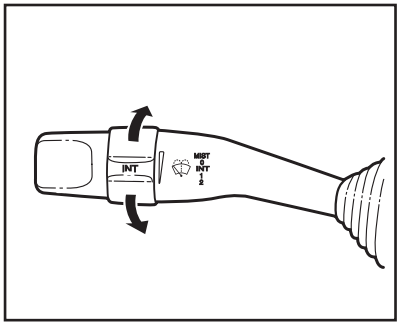
INT Intermittent wipe

1 Slow

2 Fast

Pull to wash the windscreen. The wipers will also cycle for a short time.

Intermittent wipers



Rotate collar down for more frequent wipes, up for less frequent wipes.

Note
The intermittent wiper frequency is increased as vehicle speed increases.

Power outlets

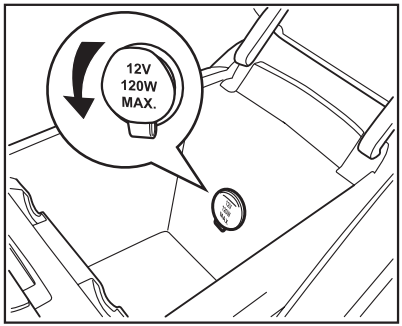
⚠Warning

It is dangerous for the driver of a vehicle to attach or remove accessories from the power socket while driving. It may distract the driver's attention, putting the occupants of the vehicle and other road users at risk.

Note
Any device connected to a power socket must not exceed a current draw of 10 amps.

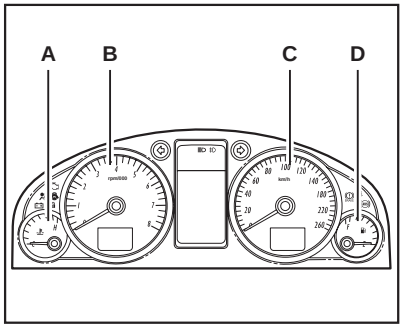
The power socket operates with the ignition in the ON or the ACCESSORIES positions.

Console power socket



Warning lights, gauges and indicators

Instrument panel



A. Engine coolant temperature gauge

B. Tachometer

C. Speedometer

D. Fuel gauge

Note

Depending on vehicle variant, the instrument panel appearance may differ.

Engine coolant temperature gauge

Engine coolant temperature gauge (A), shows temperature of the engine coolant when the ignition is on (**C** = cold, **H** = hot).

If the needle moves all the way to **H** and remains there for longer than 30 seconds:

- Stop the vehicle as soon as it is safe to do so. See Engine overheating on page 215.

The gauge reading can move towards **H** under the following conditions:

- Stop-start driving
- High speed driving in warm weather
- Hill climbing
- Towing

This is normal.

Tachometer

Tachometer (B), shows engine speed in thousands of revolutions per minute (RPM).

Speedometer

Speedometer (C), shows vehicle speed in kilometres per hour (km/h).

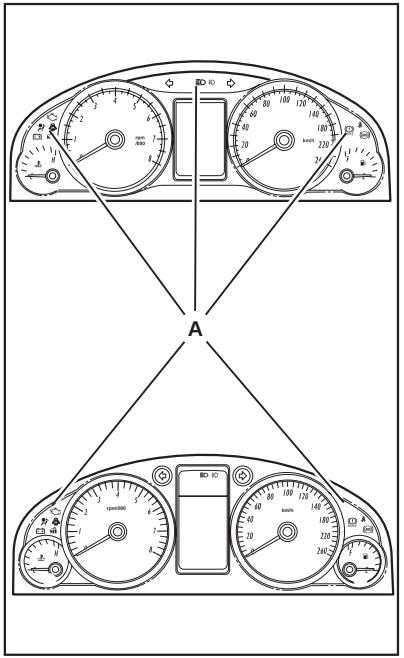
Fuel gauge

Fuel gauge (D), shows the level of fuel in the fuel tank (**E** = empty, **F** = full).

Note

Large additions of fuel will change the gauge reading quickly. Additions less than 15 litres can take up to 10 minutes to register. This prevents false readings due to fuel movement when cornering.

Control indicators



A. Depending on vehicle variant, the location of warning lights and reminders may differ.

The following warning lights and reminders may appear on the instrument panel.

They show as illuminated icons and/or animations.

A chime sounds with most warning lights and reminders.

Note
Press **TRIP** or the ENTER button to clear animations and revert to the original trip computer display.

Seat belt reminder

If the driver's seat belt is not fastened when the ignition is turned to the ON or START positions:

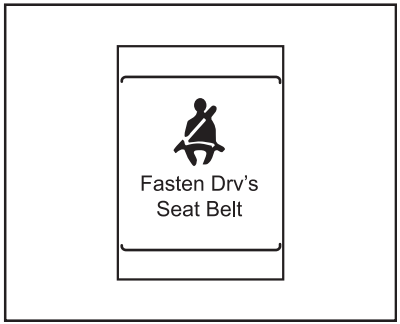
- The warning light illuminates.
- The chime sounds for about 20 seconds.

The vehicle may have a passenger's seat belt warning light.

If the passenger's seat belt is not fastened when the ignition is turned to the ON or START positions:

- The warning light illuminates.
- The chime sounds for about 20 seconds.

Fasten driver's seat belt animation

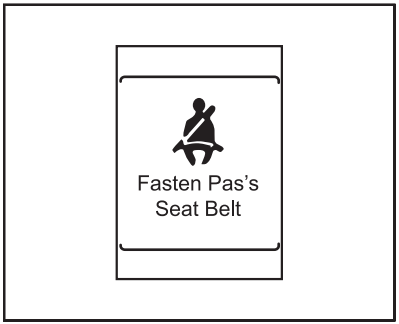


If the driver's seat belt is not fastened and the vehicle speed reaches 25 km/h:

- The warning light flashes.
- The **Fasten Drv's Seat Belt** animation illuminates.
- The chime sounds.

Fasten the driver's seat belt to clear the reminder.

Fasten passenger's seat belt animation

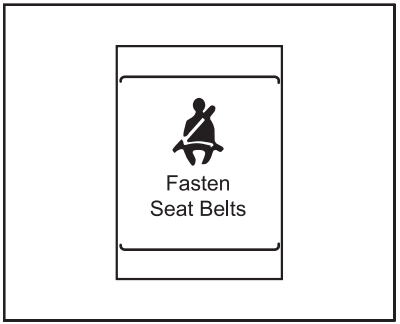


If the passenger's seat belt is not fastened and the vehicle speed reaches 25 km/h:

- The warning light flashes.
- The **Fasten Pas's Seat Belt** animation illuminates.
- The chime sounds.

Fasten the passenger's seat belt to clear the reminder.

Fasten seat belts animation



If the driver and passenger's seat belts are not fastened and the vehicle speed reaches 25 km/h:

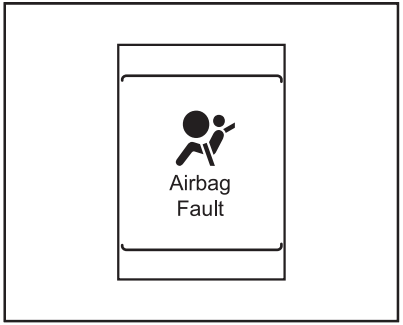
- The and warning lights flash.
- The **Fasten Seat Belts** animation illuminates.
- The chime sounds.

Fasten both seat belts to clear the reminders.

Airbag and belt tensioners

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

Airbag fault animation



If the warning light and the **Airbag Fault** animation illuminate when driving, there is a problem with the airbag or belt tensioner system:

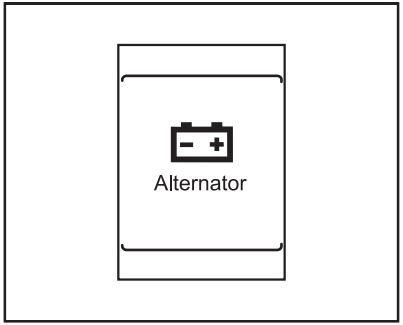
- Press **TRIP** or the ENTER button to clear the animation.
- The airbag or belt tensioner system may not function correctly in an accident.
- The warning light remains illuminated until the problem is repaired.
- Contact a Holden Dealer immediately.

Note
The warning light and the **Airbag Fault** animation illuminate if the airbag or belt tensioners have been activated.

Charging system

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

Alternator animation



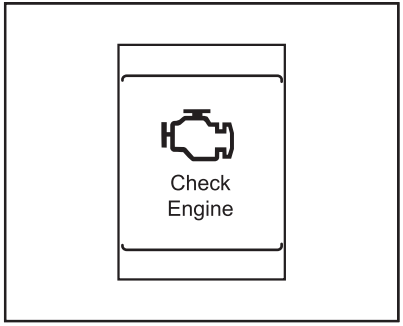
If the warning light and the **Alternator** animation illuminate while the engine is running, there is a problem with the charging system:

- Press **TRIP** or the ENTER button to clear the animation.
- The warning light remains illuminated until the problem is repaired.
- Contact a Holden Dealer.

Malfunction indicator light

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

Check Engine animation



If the warning light and the **Check Engine** animation illuminate when driving, there is a problem with the emission monitoring system:

- Press **TRIP** or the ENTER button to clear the animation.
- The warning light remains illuminated until the problem is repaired.
- Contact a Holden Dealer.

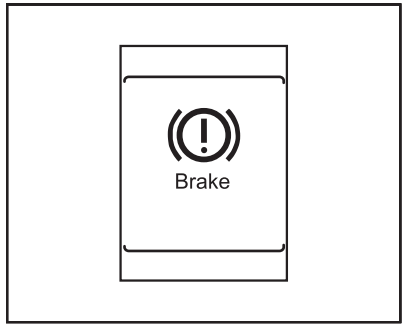
If the warning light flashes and the **Check Engine** animation illuminate when driving:

- Press **TRIP** or the ENTER button to clear the animation.
- The warning light flashes until the problem is repaired.
- Reduce vehicle speed and load.
- Contact a Holden Dealer.

Brake system

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

Brake animation

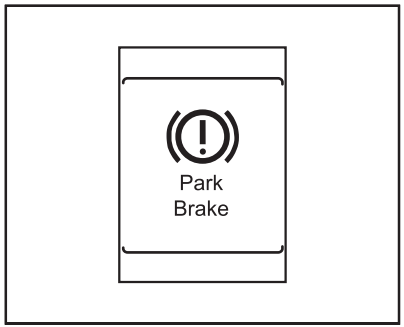


If the warning light and the **Brake** animation do not extinguish or illuminate when driving and the park brake is released, there is a problem with the brakes.

Note
The **Brake** animation also illuminates to show a low fluid level in the brake fluid reservoir.

- Stop the vehicle as soon as it is safe to do so.
- Press **TRIP** or the ENTER button to clear the animation.
- The (!) warning light remains illuminated until the problem is repaired.
- Check the brake fluid level. See Engine compartment overview on page 207.
- Do not proceed until satisfied that braking is possible or that the cause of the problem has been repaired.
- If necessary, contact a Holden Dealer.

Park brake animation

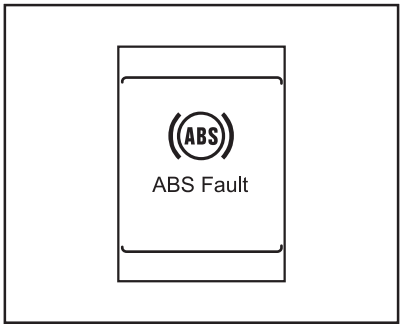


If the (!) warning light and the **Park Brake** animation illuminate and a chime sounds when driving, the park brake is still applied. Release the park brake.

Antilock Brake System (ABS)

The (ABS) warning light illuminates for a short time when the ignition is turned on to show that the light is working.

ABS Fault animation



If the (ABS) warning light and the **ABS Fault** animation illuminate, there is a problem with the ABS system.

Note

The vehicle's brake system remains operational but without ABS assistance. See Antilock Brake System (ABS) on page 182.

- Press **TRIP** or the ENTER button to clear the animation.
- The (ABS) warning light remains illuminated until the problem is repaired.
- Contact a Holden Dealer.

High beam

The ≡D indicator light illuminates when headlamp high beam is on.

Fog lamp

The ≠D indicator light illuminates when the fog lamps are on.

Turn signal

Push the lever to signal a turn:

- Push the lever in the same direction the steering wheel is turned.
- A turn signal indicator light ⇦⇨ will flash.
- The turn signal will self cancel from larger turns.

Note
In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. Push it back to its original position.

- Push part way to signal a lane change. The turn signals will flash three times.
- Push the lever in either direction to cancel a lane change signal. See Turn signals on page 92.

Door ajar

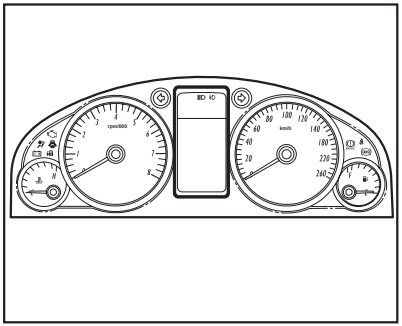
The warning light illuminates when a door is not completely closed.

Anti-theft alarm system

The indicator light flashes when the security system is activated. See Vehicle security on page 23.

Information displays

Graphic Information Display (GID)



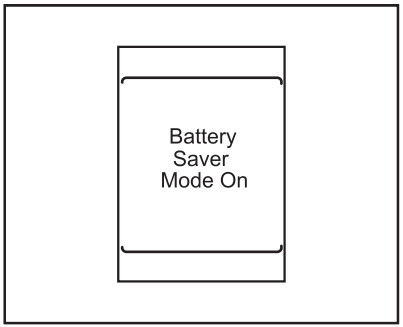
Displays visual information for:

- Vehicle functions
- Trip computer
- Audio
- Warnings and reminders

Vehicle messages

Battery voltage messages

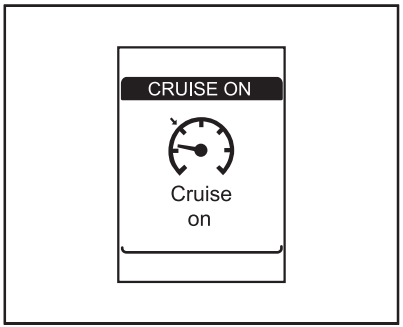
Battery saver mode on animation



If the **Battery Saver Mode On** animation illuminates, the battery voltage is low.

Cruise control messages

Cruise on animation



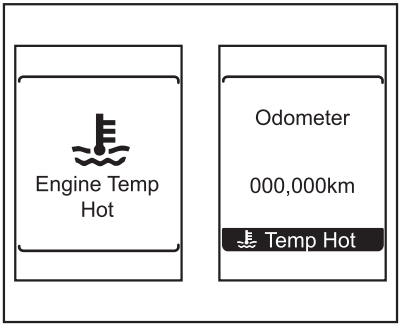
The **Cruise on** animation illuminates when the cruise control is:

- Activated
- Ready for use

See Cruise control on page 186.

Engine cooling system messages

Engine temperature hot animation



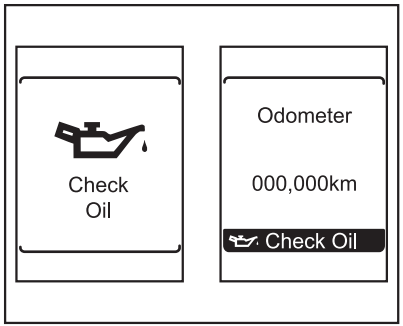
If the **Engine Temp Hot** animation illuminates, the engine coolant is excessively hot:

- Stop the vehicle as soon as it is safe to do so.
- Press **TRIP** or the ENTER button to clear the animation.
- **Temp Hot** remains illuminated until the problem is repaired. See Engine overheating on page 215.

Caution
Engine damage may result if you keep driving.

Engine oil messages

Check oil animation

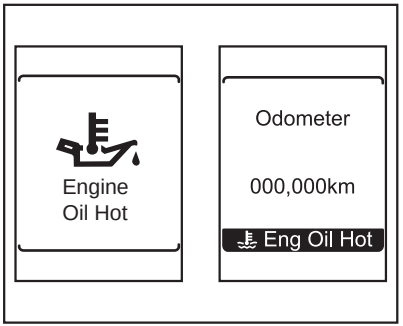


If the **Check Oil** animation illuminates while the engine is running, the engine oil pressure or level is low:

- Stop the vehicle as soon as it is safe to do so.
- Turn the ignition off and remove the key.
- Check the engine oil level. See Engine oil on page 210.
- Press **TRIP** or the ENTER button to clear the animation.
- **Check Oil** remains illuminated until the problem is repaired.
- Contact a Holden Dealer.

Caution
Engine damage may result if you keep driving. Do not run the engine. If the oil level is normal, have the system checked by the nearest Holden Dealer.

Engine oil hot animation



If the **Engine Oil Hot** animation illuminates while the engine is running, the engine oil is excessively hot:

- Reduce engine RPM and vehicle load.
- Press **TRIP** or the ENTER button to clear the animation.

If **Eng Oil Hot** remains illuminated:

- Stop the vehicle as soon as it is safe to do so.
- Allow the engine to cool.
- Press **TRIP** or the ENTER button to clear the animation.

If **Eng Oil Hot** remains illuminated when engine RPM and vehicle load are low:

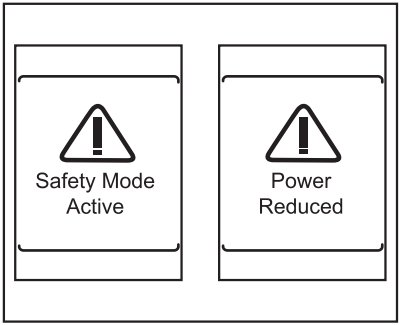
- Stop the vehicle as soon as it is safe to do so.
- Turn the ignition off and remove the key.
- Contact a Holden Dealer.

Caution

Engine damage may result if you keep driving. Do not run the engine. Continued operation may cause damage to the engine which is not covered under your New Vehicle Warranty.

Engine power messages

Safety mode active and power reduced animations



If the **Safety Mode Active** and **Power Reduced** animations illuminate alternately, there is a problem with the engine control:

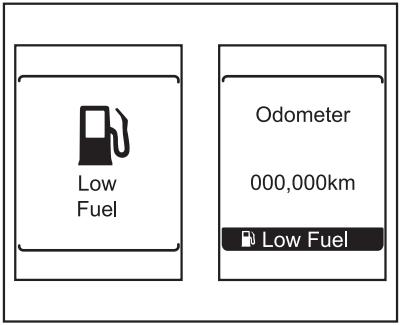
- Press **TRIP** or the ENTER button to clear the animation.
- ⚠ **Safety** remains illuminated until the problem is repaired.
- Contact a Holden Dealer.

Note

Although the vehicle may still be drivable, the accelerator input available may be limited, resulting in reduced power.

Fuel system messages

Low fuel animation

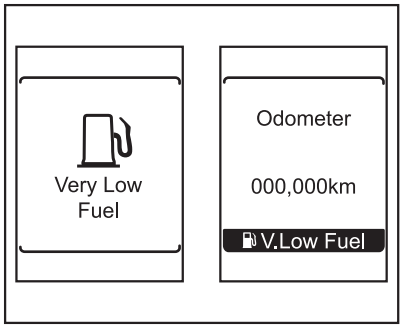


The **Low Fuel** animation illuminates when the fuel level is low:

- Press **TRIP** or the ENTER button to clear the animation.

- **Low Fuel** remains illuminated until the fuel tank is filled above the low fuel level.

Very low fuel animation

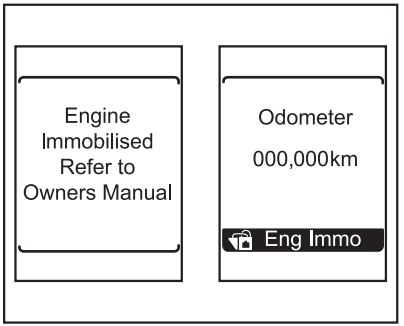


The **Very Low Fuel** animation illuminates when the fuel level is very low:

- Press **TRIP** or the ENTER button to clear the animation.
- **V.Low Fuel** remains illuminated until the fuel tank is filled above the very low fuel level.

Security

Engine immobilised animation

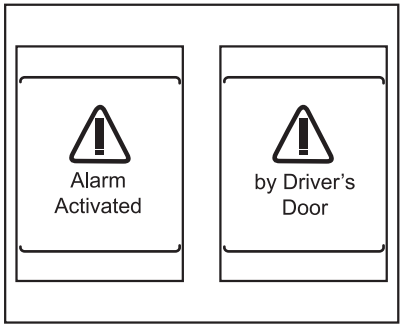


If the **Engine Immobilised Refer to Owners Manual** animation illuminates:

- Press **TRIP** or the ENTER button to clear the animation.
- **Eng Immo** remains illuminated until the problem is repaired.
- Contact a Holden Dealer.

See Vehicle security on page 23.

Anti-theft alarm system animations



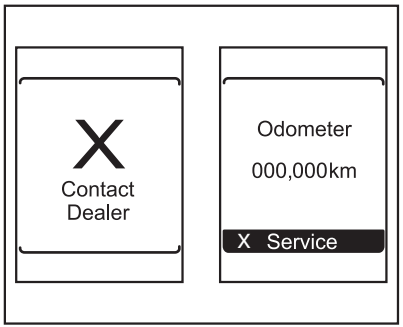
If the **Alarm Activated** animations illuminate the alarm has been triggered:

- The **Alarm Activated** animation and an animation indicating the trigger point illuminate alternately.
- Multiple animations indicate more than one trigger point.
- Press **TRIP** or the ENTER button to clear the animation(s).

See Anti-theft alarm system on page 23.

Service display

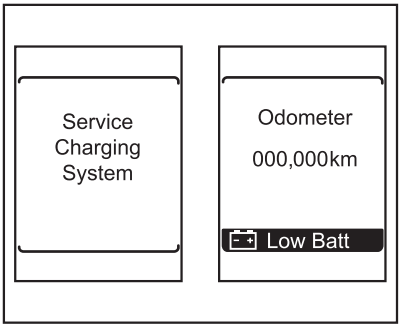
Service error animation



If the **Contact Dealer** animation illuminates there is a problem with the instrument panel:

- Press **TRIP** or the ENTER button to clear the animation.
- **X Service** remains illuminated until the problem is repaired.
- Contact a Holden Dealer as soon as possible.

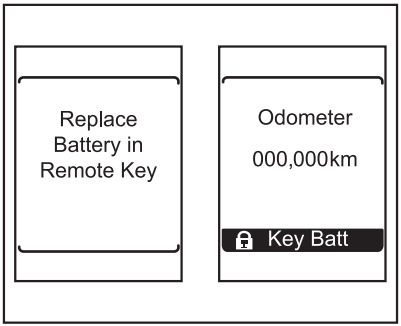
Service charging system animation



If the **Service Charging System** animation illuminates there is a problem with the Charging system:

- Press **TRIP** or the ENTER button to clear the animation.
- **Low Batt** remains illuminated until the problem is repaired.
- Contact a Holden Dealer as soon as possible.

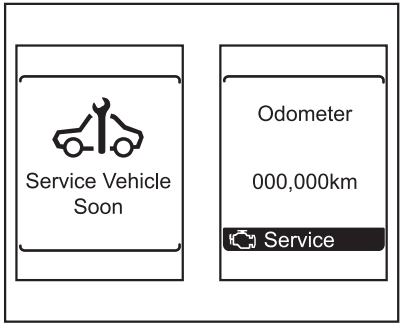
Replace battery in remote key animation



If the **Replace Battery in Remote Key** animation illuminates and a chime sounds the battery in the remote key needs replacing:

- Press **TRIP** or the ENTER button to clear the animation.
- **Key Batt** remains illuminated until the problem is repaired.
- Contact a Holden Dealer as soon as possible.

Service vehicle soon animation



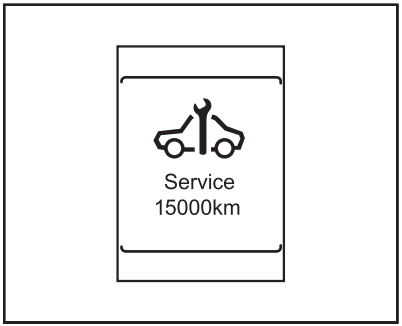
If the **Service Vehicle Soon** animation illuminates there is a problem with one of the vehicle systems:

- Press **TRIP** or the ENTER button to clear the animation.
- **Service** remains illuminated until the problem is repaired.

Caution

Although the vehicle may still be drivable, take the vehicle to a Holden Dealer, as soon as possible. Excess driving may result in vehicle damage.

Service animation



The **Service** animation showing the kilometre reading when the service is due, illuminates 1,000 km before the service becomes due:

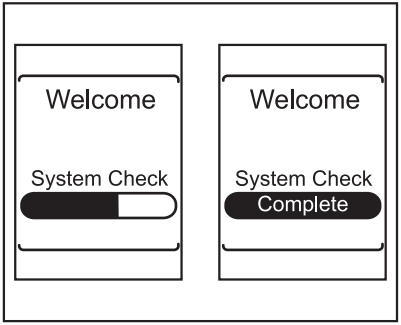
- Press **TRIP** or the ENTER button to clear the animation.
- The animation illuminates when the ignition is turned on or off.
- If the service becomes overdue, the animation illuminates and flashes when the ignition is turned on or off.
- The service reminder will be reset when servicing the vehicle.

Caution

The service reminder is distance based. If the vehicle is driven infrequently, special servicing may be required. See the Service/Warranty Booklet supplied with the vehicle.

Starting the vehicle messages

System check animations



When the ignition is turned on, a system check is performed and the following are displayed:

- The status of the vehicle systems
- Any warnings or service reminders as required
- The trip computer display

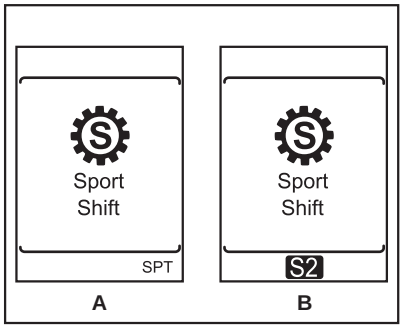
Note

Press **TRIP** to clear each warning displayed. If no warning is displayed, pressing **TRIP** during the system check will display the trip computer display.

Transmission messages

The vehicle may have a 4 speed or 6 speed automatic transmission.

Sport shift animations

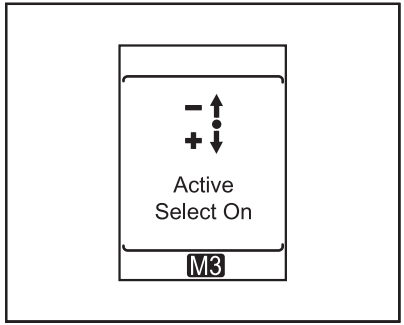


The **Sport Shift** animation illuminates when sport shift mode is inactive:

- **Sport Shift** is illuminated for a short time.
- **SPT** is illuminated (4 speed), (A).
- **S** and the current gear **(1, 2, 3, 4, 5 or 6)** are illuminated (6 speed), (B).

See Sport shift mode on pages 175 and 177.

Active select animation (6 speed automatic transmission)

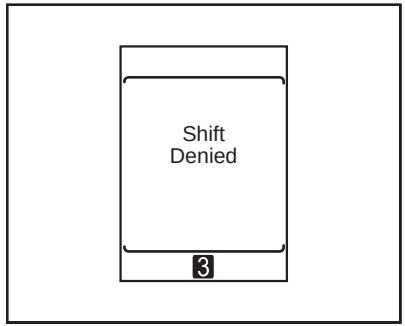


The **Active Select On** animation illuminates for a short time when active select mode is selected.

- **M** and the current gear **(1, 2, 3, 4, 5 or 6)** are illuminated.

See Active Select (A/S) mode on page 179.

Shift denied animation

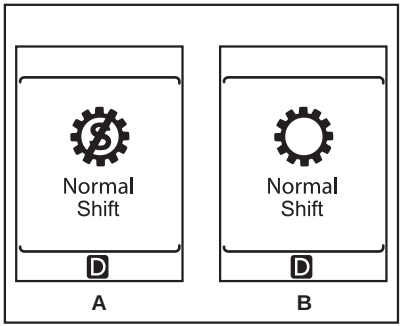


The **Shift Denied** animation illuminates when the transmission has not shifted to the selected gear.

Note

In active select mode the transmission will shift gear only if the engine speed is within a suitable range. See Active Select (A/S) mode on page 179.

Normal shift animations



The **Normal Shift** animation illuminates when sport shift mode is inactive:

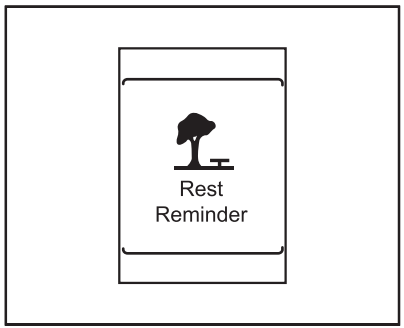
- **Normal Shift** is illuminated for a short time (4 speed), (A) and (6 speed), (B).
- **D** is illuminated.

See Normal shift mode on page 178.

Vehicle reminder messages

When the ignition is turned off, any current service reminders are displayed, then the odometer appears for about 30 seconds. The odometer is displayed again when the driver's door is opened.

Rest reminder animation



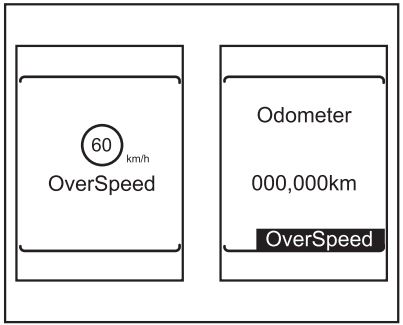
The **Rest Reminder** animation illuminates after 2 hours of continuous driving:

- Driving for too long without a break may be hazardous.
- Consider stopping when safe and taking a rest.
- The reminder timer counts from when the ignition is turned on.
- Alternatively, press **TRIP** or the ENTER button to clear the animation.
- The **Rest Reminder** animation will illuminate again after 20 minutes and the chime will sound.

See Vehicle personalisation on page 85.

Vehicle speed messages

Overspeed animation



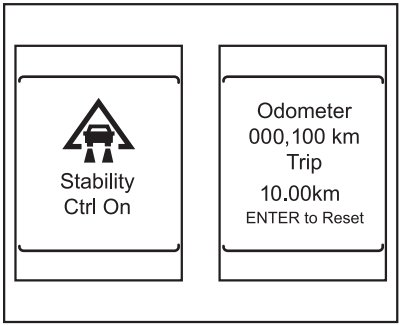
The **OverSpeed** animation illuminates and a chime sounds when the vehicle speed exceeds a preselected value:

- Reduce speed.
- Alternatively, press **TRIP** or the ENTER button to clear the animation.
- Alternatively, adjust the preselected value by rotating ▲ or ▼ while the warning is active.

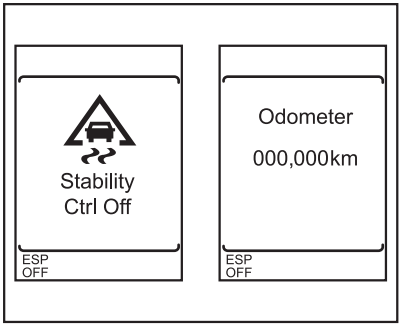
See Overspeed on page 83.

Electronic Stability Program (ESP®)

Stability control on animation



Stability control off animations



The **Stability Ctrl On** and **Stability Ctrl Off** animations illuminate for a short time when the ESP® is turned on or off by pressing OFF.

When the ESP® is turned off:

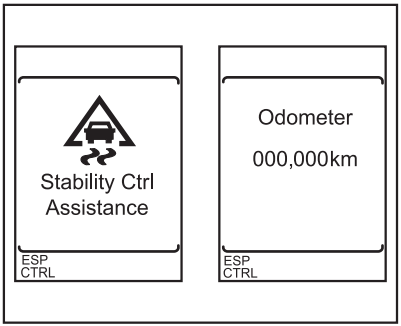
- The **Stability Ctrl Fault** animation illuminates for a short time.
- The **Stability Ctrl Off** animation illuminates for a short time.
- Press **TRIP** or the ENTER button to clear the animations.
- **ESP OFF** remains illuminated.

If the **Stability Ctrl Off** animation illuminates and you have not pressed OFF:

- There is a problem with the ESP®.
- The ESP® is no longer operating.
- Press **TRIP** or the ENTER button to clear the animation.
- **ESP OFF** remains illuminated until the problem is repaired.
- Contact a Holden Dealer.

See Electronic Stability Program (ESP®) on page 184.

Stability control assistance animation

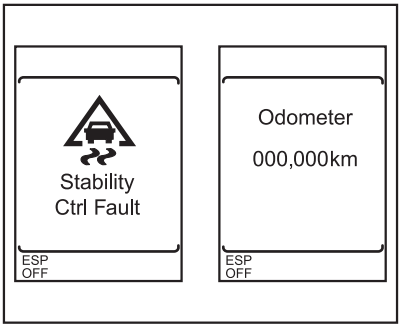


The **Stability Ctrl Assistance** animation illuminates when the ESP® is helping the vehicle with road grip and stability:

- **ESP CTRL** remains illuminated while the ESP® is actively helping the vehicle.

See Electronic Stability Program (ESP®) on page 184.

Stability control fault animation



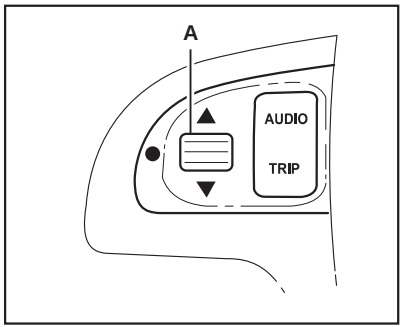
If the **Stability Ctrl Fault** animation illuminates and you have not pressed OFF:

- There is a problem with the ESP®.
- The ESP® is no longer operating.
- Press **TRIP** or the ENTER button to clear the animation.
- **ESP OFF** remains illuminated until the problem is repaired.
- Contact a Holden Dealer.

See Electronic Stability Program (ESP®) on page 184.

Trip computer

Controls



1. Press **TRIP** to navigate between displays.
2. Scroll ▲ and ▼ using the ENTER button (A) to change the highlighted value/setting.
3. Push on the scroll wheel (A) to make a selection.

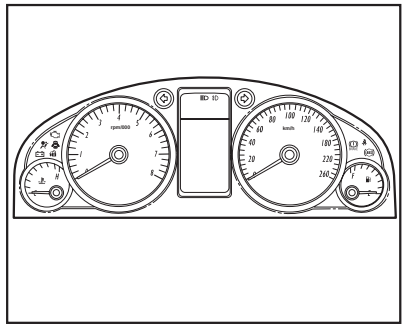
Note

- Values are highlighted for a short period. Press **TRIP** to re-highlight a value.
- If the wrong buttons are accidentally pressed, causing the display to show anything other than normal, turn the ignition off then on again (only when the vehicle is stationary).
- The display settings are remembered when the ignition is turned off and recalled next time the ignition is turned on.

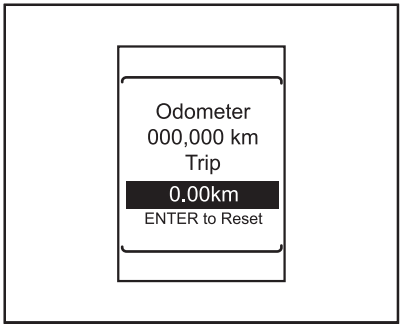
The vehicle may have personal identity keys.

The display settings are remembered for each key and recalled next time the ignition is turned on with that key. See Personal identity keys on page 17.

Displays



Odometer/trip

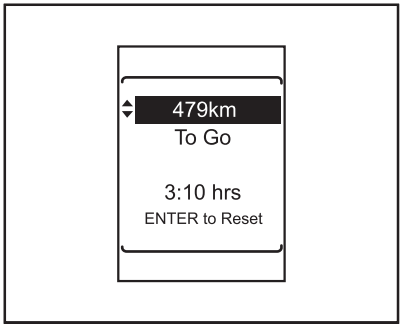


Displays total vehicle kilometres.

Reset tripmeter:

- Press the ENTER button for 3 seconds to reset.
- Press the ENTER button briefly to reset trip, average speed and average fuel values.

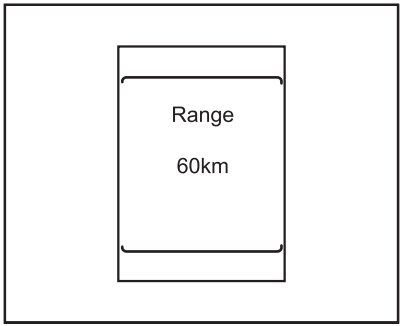
Distance/time to go



Displays distance and time to arrival:

- Rotate ▲ or ▼ to enter estimated trip distance.
- The default value is 500 km. This default can be adjusted.
- Can be enabled or disabled. See Vehicle personalisation on page 85.

Range (excluding LPG)

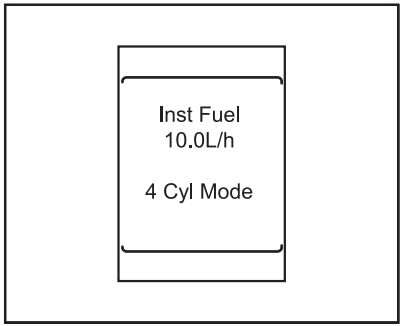


Displays estimate of how far the vehicle will go on the current amount of fuel, based on the fuel usage over approximately the previous quarter of the tank.

Note

The range is an estimate only and may vary based on driving style and variation in the fuel gauge reading.

Instantaneous fuel



The vehicle may have an instantaneous fuel display.

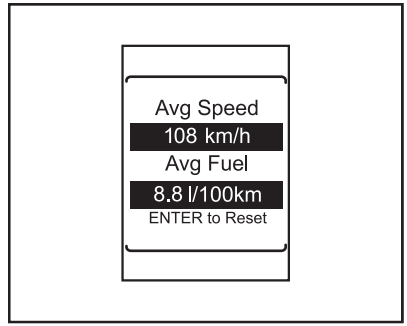
Displays instantaneous fuel consumption:

- Litres per 100 km is displayed when vehicle speed is above 10 km/h.
- Litres per hour is displayed when vehicle speed is below 10 km/h.

The vehicle may have Active Fuel Management (AFM):

- Displays the number of currently active cylinders.
- The AFM display may be enabled or disabled. See Vehicle personalisation on page 85.

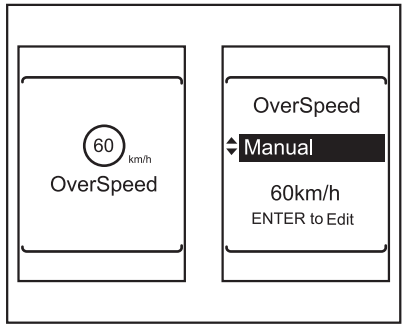
Average speed/average fuel (excluding LPG)



Displays average speed and fuel consumption:

- It is calculated from the last time the trip computer was reset.
- Press the ENTER button for 3 seconds to reset.
- Press the ENTER button briefly to reset trip, average speed and average fuel values.

Overspeed



OverSpeed illuminates and a chime sounds when vehicle speed equals or exceeds a preselected value.

The **OverSpeed** display is shown for 10 seconds to allow the preselected value to be adjusted. See Setting overspeed warning on page 84.

Setting overspeed warning

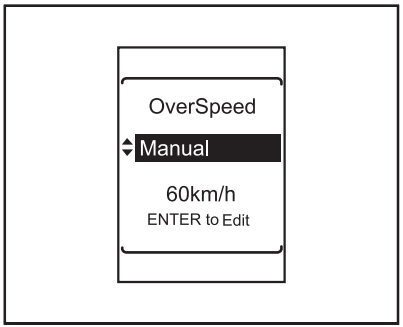
OverSpeed illuminates and a chime sounds when vehicle speed equals or exceeds a preselected value.

The **OverSpeed** display is shown for 10 seconds to allow the preselected value to be adjusted.

Set the overspeed mode:

1. Press **TRIP** to navigate to the overspeed display.
2. Rotate ▲ or ▼ to select the required mode:
   - **Off**
   - **Manual** (accepts values higher than 20 km/h in 5 km/h steps)
   - **Preset 1** (60 km/h)
   - **Preset 2** (80 km/h)
   - **Preset 3** (100 km/h)
   - **Preset 4** (110 km/h)
3. Press the ENTER button to set the overspeed mode.

Manual

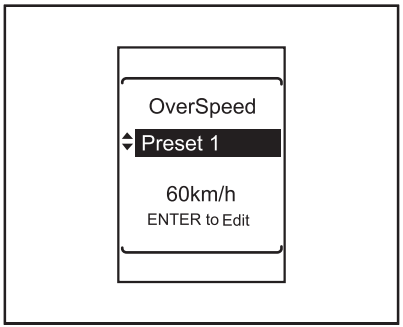


Setting the manual preselected value:

1. Rotate ▲ or ▼ to select manual mode.
2. Press the ENTER button.
3. Rotate ▲ or ▼ to set the required value.

   Alternatively, press the ENTER button for 3 seconds to set a value to the nearest 5 km/h step above the current setting.

Preset (1 to 4)

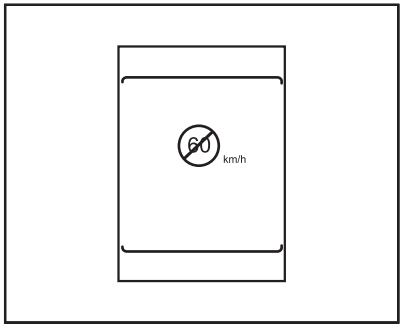


Using the preset values:

1. Rotate ▲ or ▼ to select the required **Preset** (1 to 4) mode.
2. Press the ENTER button.
3. Rotate ▲ or ▼ to set the required value. The value adjusts in 1 km/h steps.
4. Press the ENTER button to confirm the setting.

Note
The presets are arranged in ascending order based on the km/h value set.

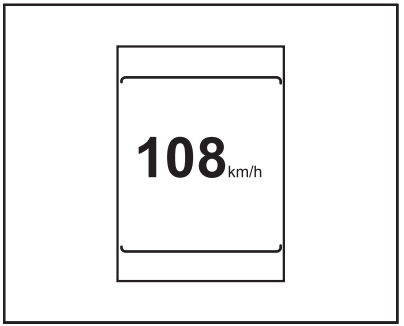
Underspeed



The underspeed animation and a chime sounds when the vehicles speed drops below the set value.

Can be enabled or disabled. See Vehicle personalisation on page 85.

Digital speedometer

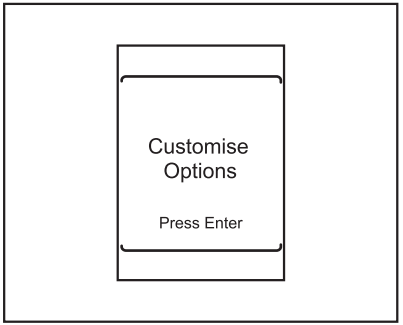


The vehicle speed can be displayed numerically.

The digital speedometer can be enabled or disabled. See Vehicle personalisation page on 85.

Vehicle personalisation

Customisation options

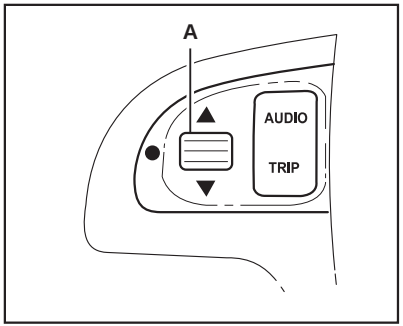


Entering the Customisation menu

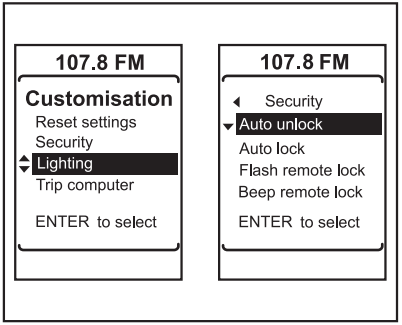
1. Press **TRIP** to navigate to the Customisation menu.
2. Press the ENTER button.

Note
The Customisation menu cannot be opened above 10 km/h.
Not Available is displayed.

Navigating the Customisation menus



A. ENTER button

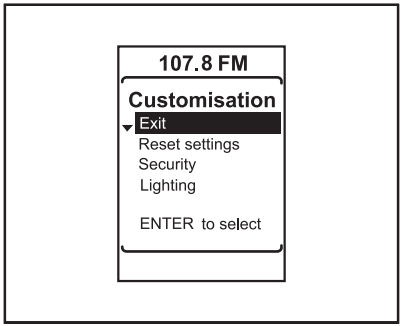


1. Rotate ▲ or ▼ to scroll through and highlight the menu items.
2. Press the ENTER button to make a selection.
3. Scroll to ◄ and press the ENTER button to go up/back a menu level.

Help screens

A help screen will display a few seconds after each menu item is selected.

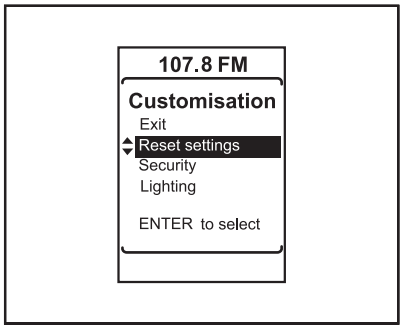
Exiting the Customisation menu



To exit from the Customisation menu:

1. Navigate to **Exit** and press the ENTER button.
2. Press **TRIP** and revert to the trip computer display.
3. Drive the vehicle at more than 10 km/h.
4. Turn the ignition off (only if stationary.)

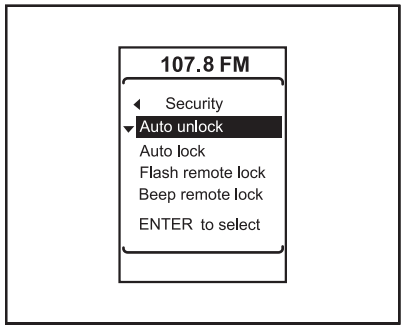
Resetting the settings



To reset all settings to the default:

1. Navigate to **Reset settings**.
2. Press the ENTER button.
3. Rotate ▲ or ▼ to highlight **Yes** or **No**.
4. Press the ENTER button to confirm the reset.

Security



See Vehicle security on page 23.

Auto unlock Automatic door unlocking options:

- **Off** Auto unlock is switched off.
- **Driver door key out** The driver's door unlocks when the ignition key is removed.
- **Driver door in park** (vehicles with automatic transmission) The driver's door unlocks when **P** (park) is selected.
- **All doors at key out** All doors unlock when the ignition key is removed.
- **All doors in park** (vehicles with automatic transmission) All doors unlock when **P** (park) is selected.

Auto lock Automatic door locking options:

- **Off** Auto lock is switched off.
- **At vehicle speed** The doors will lock when the vehicle speed is at or above 13 km/h.
- **Out of Park** (vehicles with automatic transmission) All doors will lock when the shift lever is out of **P** (park).

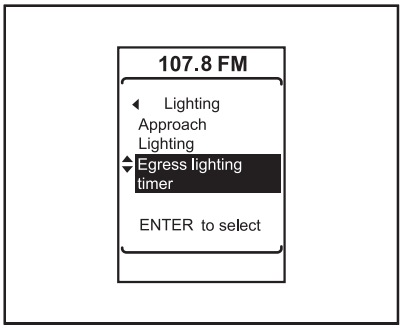
Flash remote lock The turn signal lamps flash when the doors are locked.

Beep remote lock The horn sounds when the doors are locked.

Flash remote unlock The turn signal lamps flash when the doors are unlocked.

Two stage unlock Only the driver's door unlocks when is pressed. Press again to unlock the passenger door.

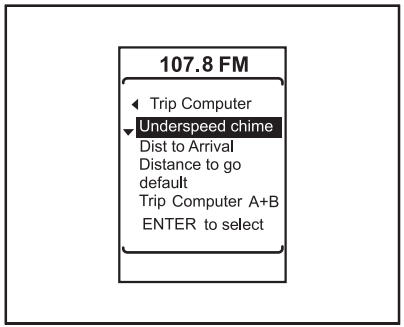
Lighting



See Lighting on page 89.

- **Approach lighting** The exterior lamps illuminate when the doors are unlocked.
- **Egress lighting** The exterior lamps illuminate for a selectable time when the doors are locked.

Trip computer



See Trip computer on page 81.

- **Underspeed chime** The underspeed chime will operate.
- **Distance to go** The distance to go will be displayed.
- **Distance to go default** Adjust the default value. The default setting is 500 km.
- **Digital speedometer** The digital speedometer will be displayed.
- **Rest reminder** The rest reminder will operate. See Rest reminder on page 78.

The vehicle may have Active Fuel Management.

- **Cylinder mode** Displays how many cylinders are operating:

  Off Choose if you do not want to display how many cylinders are currently active.

  On Choose if you want to display how many cylinders are currently active.

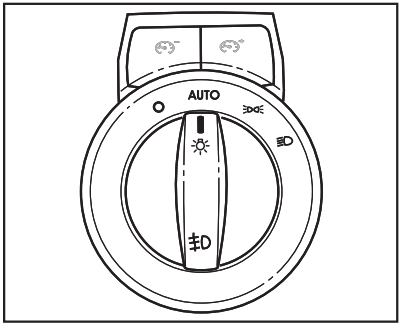
  Note
  Instantaneous fuel is not available if cylinder mode is deactivated.
- **Night panel** When in night panel mode, enable or disable the tachometer. See Night panel mode on page 93.
- **Sound volume** Sound volume for all chimes can be set to Low, Normal or High.

Lighting

Exterior lighting 89
Interior lighting 92
Lighting features 94

Exterior lighting

Lamp control



O (Off): Turns the headlamps and park lamps off. The switch returns to **AUTO**.

AUTO (Automatic headlamps): Headlamps and park lamps switch on and off automatically. Select high and low beam using the lever.

Note
Headlamps and park lamps switch on automatically after six wipes, when wipers are operating.

(Park lamps): Turns on the park, tail, rear number plate lamps and instrument panel lighting.

(Headlamps): Turns on the headlamps and all park lamps.

(Fog lamps): The vehicle may have fog lamps.

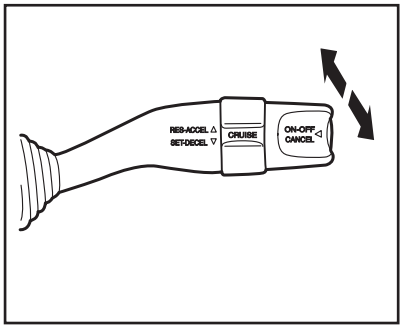
When the lamp control is set to park lamps or headlamps, pull the switch out to turn the fog lamps on. Push the switch in to turn them off.

The indicator lamp illuminates on the instrument panel, when the fog lamps are on.

Note The fog lamp switch can also be pulled out with the switch in the **AUTO** position.

If left in this position, whenever the park lamps and headlamps turn on automatically, so will the fog lamps.

High/low beam



To activate high beam:

- With the headlamps on, push the lever toward the front of vehicle until it clicks, then release.
- The high beam indicator lamp ≡D illuminates on the instrument panel.

To return to low beam:

- Pull the lever toward the rear of the vehicle.

To flash the high beam lamps:

- Pull the lever toward the rear of the vehicle and release.
- The high beam lamps can be flashed even if the headlamps and/or ignition are off.

Automatic headlamps

When the lamp control is in the **AUTO** position, the headlamps and park lamps automatically switch off and on according to the ambient light.

Note

- Keep the sensor clean and do not cover. See Instrument panel overview on page 57.
- The headlamps, park lamps and reverse lamps are activated by the approach lighting feature. See Approach lighting on page 91.

⚠Warning

The automatic headlamp sensor cannot replace the driver's personal judgement of the prevailing light conditions. For example, the sensor is unable to detect foggy conditions.

In situations such as this, set the lamp switch to ≡D, otherwise your safety and that of other road users could be endangered.

- Do not leave the headlamps or park lamps on when the engine is not running.
- To prevent the battery from becoming flat, the headlamps and park lamps switch off when the ignition is turned to the lock position.

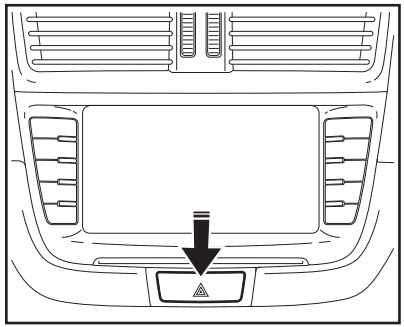
  The lamps stay off until the ignition is turned on or the lamps are switched on using the lamp control.

- To keep the lamps on when leaving the vehicle, turn the ignition key to the lock position, then turn the lamp control first to **AUTO** then to park lamps or headlamps.

Delayed headlamps (Egress lighting)

To illuminate a path, set a time delay from when the ignition is turned to the lock position to when the lamps automatically switch off. See Vehicle personalisation on page 85.

Hazard warning flasher



Press ⚠ to turn the hazard warning flasher on or off, when the ignition is in any position.

All turn signals flash continuously.

Use the hazard warning flasher if the vehicle becomes a traffic hazard, day or night.

Note
Using hazard warning flashers while the vehicle is moving, is illegal in some States and Countries.

Personal identity keys

The vehicle may have personal identity keys.

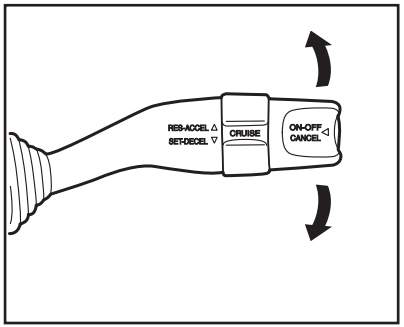
When 🔓 is pressed on the key, the headlamp time delay is set to the last adjustments used for that key. See Personal identity keys on page 17.

Approach lighting

Approach lighting provides additional security when returning to the vehicle at night.

- Press 🔓 on the key.
  The vehicle headlamps, park lamps and reverse lamps will illuminate for 60 seconds.
- The lamps only turn on if the lamp control is left in the **AUTO** position.
- To enable or disable this function, see Vehicle personalisation on page 85.

Turn signals



- Push the lever in the direction the steering wheel is turned.
- To signal a lane change, push the lever part way in the direction of the turn.

  The turn signals will flash three times.
- To cancel the lane change function, push the lever in either direction.
- A green arrow on the instrument panel flashes when the lamps are in operation.

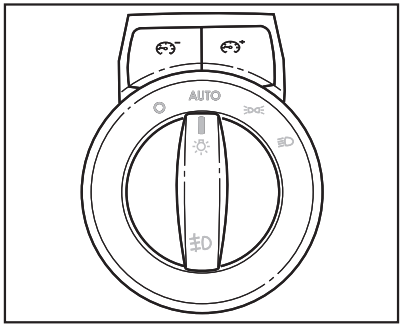
Fog lamps

The vehicle may have fog lamps.

- In very heavy fog, vision may be improved by having the park lamps and fog lamps on and turning the headlamps off.
- When the fog lamps are turned on, the fog lamp indicator illuminates on the instrument panel.
- Reduce speed when driving in fog.
- Check State laws regarding use of fog lamps when driving.

Interior lighting

Instrument panel illumination



The instruments are automatically illuminated when the park lamps or headlamps are switched on.

To adjust the instrument lighting, hold or until the desired level is reached.

Night panel mode

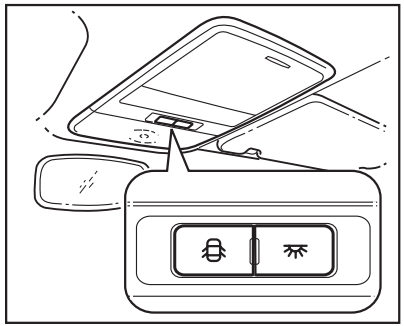
Press and together to enable night panel mode for country driving.

Press and hold either button again to switch instrument lighting back on.

Note

- When night panel mode is enabled, the speedometer, information displays and warning reminders remain illuminated while all other instrument panel illumination is switched off.
- In night panel mode, only the gauges that are illuminated will be active.

Lamp control



Dome lamp

The interior lamp is located in the centre-front of the roof.

Two settings are available:

- (**On/off)**
- **(Door activated)**: The lamp automatically switches on when a door is opened, the vehicle is unlocked or the key is removed from the ignition.

  The lamp dims to off after the doors are closed.

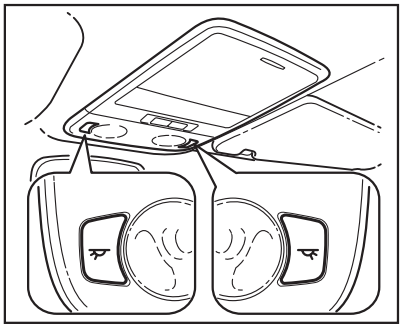
- Switching the ignition on dims the lamp off immediately (unless a door remains open).
- When the interior lamp is set to door activated it operates automatically only when it is dark.
- The lamp switches off after approximately 10 minutes after the key is turned to the lock position. See Battery saver on page 94.

Cabin storage area lamp

The vehicle may have a cabin storage area lamp, located behind the seats.

It illuminates when the dome lamp switches on.

Front reading lamps



- The vehicle may have front reading lamps.
- Front reading lamps are located in the centre-front roof console.
- Press ⇀ or ↽ to switch the lamp on or off.

Hard tonneau cover lamp

The vehicle may have a hard tonneau cover lamp. It illuminates when the hard tonneau cover is opened.

Glove box lamp

The glove box lamp illuminates when the glove box is opened and switches off when closed.

Lighting features

Battery saver

To prevent the battery from discharging, the lamps for the glove box, are switched off automatically approximately 10 minutes after the key is turned to the lock position.

Once the lamps have been deactivated, they are reactivated if either:

- The ignition is switched on
- The vehicle is unlocked
- The glove box is opened

Infotainment system

Introduction....95
Setting the clock....100
Radio....105
Audio players....110
CD player....111
Auxiliary devices....117
USB port....120
Bluetooth® music....123
Navigation....124
Bluetooth® phone....151
Help system....157

Introduction

General information

Do the following before driving:

- Read the infotainment system section to become familiar with the functions.
- Become familiar with the hard keys on the faceplate and touch-sensitive screen buttons.
  - Press, refers to hardkeys.
  - Touch, refers to screen keys.
- Set up the audio by presetting favourite stations, setting the tone and adjusting the speaker settings.
- Set up the navigation features before driving, such as entering an address or a preset destination or delete information you may have entered using various options.

- The *Bluetooth*® word mark and logo are registered trademarks and are owned by the Bluetooth SIG, Inc.
- iPod® is a registered trademark of Apple Inc.

About the system

- The system includes navigation and audio functions.
- Some features may be disabled while driving. These functions will be greyed-out.
- A greyed-out function indicates it is not available when the vehicle is moving.
- All functions are available when the vehicle is parked.

⚠Danger

Taking your eyes off the road for too long or too often while using the navigation system could cause a crash resulting in injury or death to yourself or others. Focus your attention on driving.

⚠Warning

When driving the vehicle, be sure to keep the volume of the unit set low enough to hear sounds from outside the vehicle (e.g. road and traffic conditions).

Caution

Do not place beverages close to the audio system. The audio system mechanism may be damaged if they spill.

Do not strike or allow anything to impact the audio system as damage to the system mechanisms could occur.

Theft-deterrent feature

The infotainment system includes an electronically coded security system.

This electronically links the infotainment system to the vehicle.

When the electronic link between the vehicle and the infotainment system is interrupted, **Security Lockout Active** will be shown. Contact a Holden Dealer.

Traffic Message Channel (TMC) feature

The following is a brief summary of the terms and conditions (as updated from time to time) that apply to the use of the Traffic Message Channel (TMC).

To view the full terms and conditions relevant to the use of the service, refer to: www.sunatraffic.com.au/termsandconditions/

Appropriate use

The TMC is intended as an aid only, and does not provide comprehensive or accurate information on all occasions.

The TMC service should not be relied upon for journeys that are time critical because, on occasions, you may experience delays even when using the TMC service.

Use of the TMC while driving

You must operate the TMC in accordance with all relevant road rules and laws. In particular you must only operate the TMC when the vehicle is at a complete stop and it is safe to do so.

Service continuity and reception

Reasonable endeavours will be made to provide the TMC, 24 hours a day, 365 days a year. However, the service may occasionally be unavailable for technical reasons or for planned maintenance. The provider of the TMC reserves the right to withdraw the service at any time.

Uninterrupted reception of the TMC cannot be assumed at any particular location.

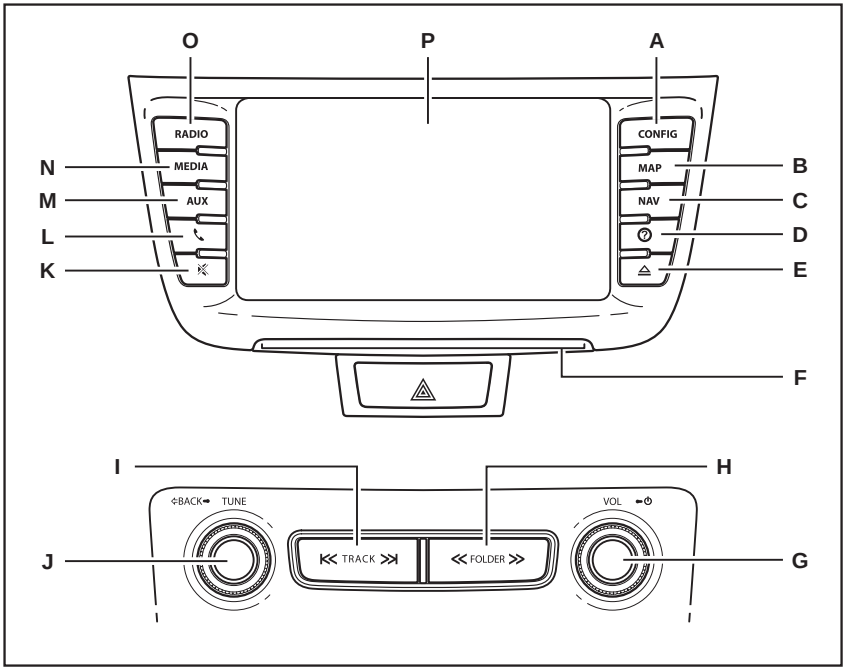
Limitation of liability

Neither GM Holden nor the provider of the TMC will be liable to you or to any third party for any damages either direct, indirect, incidental, consequential or otherwise arising out of the use of or inability to use the TMC.

No guarantee or any warranties are provided as to the availability, accuracy or completeness of the TMC, and to the extent which it is lawful to do so, any warranties which might otherwise be implied by any State or Federal legislation in relation to the TMC are excluded.

For operation, see Traffic Message Channel (TMC) on page 144.

Overview



A. Configuration menu button
B. Navigation map view button
C. Navigation menu button
D. Help menu button
E. CD eject button
F. CD slot
G. Power/volume switch
H. Tune up/down (AM, FM)

   Folder up/down button (MP3)

I. Continuous seek up/down button (AM, FM)

   Seek next/previous track button (CD, USB, iPod®, Bluetooth® audio and VCDC)

J. Tune switch (AM, FM)

   Page up/page down (menu control)

   Back (menu control)

K. Mute sound button (AM, FM, CD, USB, iPod®, Bluetooth® audio and VCDC)
L. Phone button (Bluetooth®)

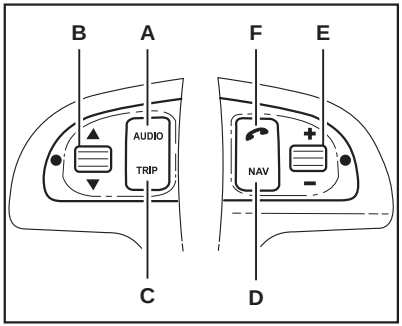
M. Auxiliary selection button

N. Media selection button (CD, USB, iPod®, Bluetooth® audio and VCDC)

O. Radio source selection button (AM, FM)

P. Touch screen (radio, media, navigation)

Steering wheel remote controls



A. Audio source selection button (radio and media)

B. Scroll up/down wheel

Radio
(next/previous favourite preset)

Media
(next/previous track)

C. Trip selection button

D. Navigation button

E. Volume scroll wheel (radio, media, Bluetooth®)

Mute button
(all media except navigation)

F. Bluetooth® phone button

Operation

Switching on/off

- Press ⏻ (G) to turn the audio system on or off.
- Rotate **VOL** (G) to adjust the volume.

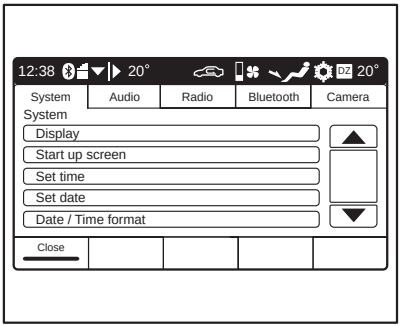
Mute

Press (E) on the steering wheel remote controls or press 🔇 (K).

Setting the clock

The time and date as well as the time and date format can be set.

Setting the date/time format



1. Press **CONFIG** (A).
2. Touch **Date/Time format**.
3. Touch **12 hr.** or **24 hr.**

   The option selected is indicated by ⦿.
4. Touch **dd mm yyyy** (03/10/2010) or **dd mmm yyyy** (3rd October 2010).

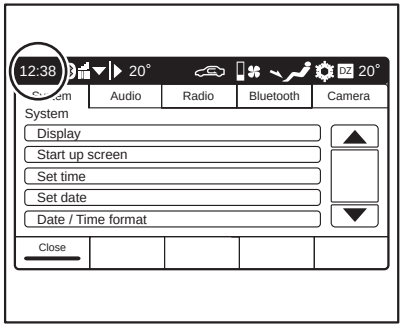
   The option selected is indicated by ⦿.
5. Touch **Back** to exit.

Setting the time

1. Press **CONFIG** (A).
2. Touch **Set time** to access the **Set time** menu.
3. Touch ▼ or ▲ to set the **Hour**, **Minute** and **AM/PM** settings.

   AM/PM are only available in a 12 hour format.

4. Touch **OK** to store the settings.
5. Touch **Back** to exit.



Alternatively, touch and hold the time where shown and repeat Steps 3 to 5.

Setting the date

1. Press **CONFIG** (A).
2. Touch **Set date** to access the **Set date** menu.
3. Touch ▼ or ▲ to set the **Day**, **Month** and **Year** settings.
4. Touch **OK** to store the settings
5. Touch **Back** to exit.

Setting the display brightness

To adjust the display brightness.

1. Press **CONFIG** (A).
2. Touch **Display**.
3. Touch ◄ or ► to adjust the display brightness.
4. Touch **Back** to exit.

Start up screen

Enable or disable the start up screen.

1. Press **CONFIG** (A).
2. Touch **Start up screen**.
3. Select either **Start up screen ON** or **OFF**.

   The option selected is indicated by ⦿.
4. Touch **Back** to exit.

Driving lockouts

In the **Driving lockouts** menu Driving lockouts can be switched on or off.

When selected, the text entry into these features are locked out while the vehicle is moving.

1. Press **CONFIG** (A).
2. Touch ▼ or ▲ and select the second **System** screen.
3. Touch **Driving lockouts**.
4. Touch the **On** or **Off** option for **Phone** and/or **Navigation text entry**.

   The option selected is indicated by ⦿.
5. Touch **Back** to exit.

Restore factory settings

With this option, all radio favourites will be erased and configuration settings reset to factory defaults.

1. Press **CONFIG** (A).
2. Touch ▼ or ▲ and select the second **System** screen.
3. Touch **Restore factory settings**.
4. Touch **OK** if you want to restore the factory setting or touch **Cancel** to exit without resetting the factory settings.

GPS clock synchronisation (with navigation)

Synchronise the clock of the infotainment system via GPS.

When activated the system clock will only be able to adjust in 30 minute increments to account for changes in time zones.

1. Press **CONFIG** (A).
2. Touch ▼ or ▲ and select the second **System** screen.
3. Touch **GPS clock sync**.
4. Touch **On** or **Off**.

   The option selected is indicated by ⊙.
5. Touch **Back** to exit.

Settings

Adjusting the tone (treble, bass, midrange)

The bass, midrange or treble can only be adjusted while the equaliser is set on Custom.

Bass, midrange and treble can be adjusted between −12 through +12.

1. Press **CONFIG** (A).
2. Touch **Audio** tab.
3. Touch **Bass/Treble**.
4. **Treble**: Touch ◄ or ► and increase or decrease the treble.
5. **Midrange**: Touch ◄ or ► and increase or decrease the midrange.
6. **Bass**: Touch ◄ or ► and increase or decrease the bass.
7. Touch **Back** to exit.

Note
The settings will be applied to the currently selected audio source.

Adjusting the balance

Adjust the sound balance between the left and right speakers.

1. Press **CONFIG** (A).
2. Touch **Audio** tab.
3. Touch **Balance**.
4. **Balance**: Touch ◄ or ► to adjust the sound balance between the left and right speakers.
5. Touch **Back** to exit.

Setting the equaliser

The equaliser enables the user to control the sound of the audio system.

With Custom selected you can adjust the bass/midrange/treble tone. See Adjusting the tone on page 102.

1. Press **CONFIG** (A).
2. Touch **Audio** tab.
3. Touch **Equaliser**.
4. Touch the option required.

   The option selected is indicated by ⦿.
5. Touch **Back** to exit.

Setting the Speed Dependent Volume Control (SDVC)

The audio system volume adjusts depending on the vehicle's speed.

As the vehicle's speed increases, the volume of the audio system also increases to compensate for the driving noise.

1. Press **CONFIG** (A).
2. Touch **Audio** tab.
3. Touch **Speed dependent volume control**.
4. Touch the option required.

   1: Small volume increase

   2: Larger volume increase

   The option selected is indicated by ⦿.
5. Touch **Back** to exit.

Setting the Dynamic Distortion Limiter (DDL)

DDL limits the amount of amplifier distortion.

When the limit is reached the volume will not be able to be increased.

1. Press **CONFIG** (A).
2. Touch **Audio** tab.
3. Touch **Dynamic distortion limiter**.
4. Touch the option required.

   OFF: No distortion limiting

   1: Maximum distortion limiting

   2: Minimum distortion limiting

   The option selected is indicated by ⦿.
5. Touch **Back** to exit.

Switching the loudness on/off

This feature automatically boosts the bass and treble response at low volume levels.

1. Press **CONFIG** (A).
2. Touch **Audio** tab.
3. Touch ▲or ▼ to select the second **Audio** page.
4. Touch **Loudness**.
5. Touch **On** or **Off**.

   The option selected is indicated by ⦿.
6. Touch **Back** to exit.

Voice guidance (with navigation)

The voice guidance volume can be adjusted and turned on or off.

1. Press **CONFIG** (A).
2. Touch **Audio** tab.
3. Touch ▲ or ▼ to select the second **Audio** page.
4. Touch **Voice guidance volume**.
5. **Voice guidance**:

   Touch **On** or **Off**.

   The option selected is indicated by ⦿.
6. **Voice guidance volume**:

   Touch ◄ or ► to adjust the voice guidance volume.
7. Touch **Back** to exit.

Voice guidance volume can be adjusted during announcements:

1. Rotate **VOL** (G).

   Alternatively scroll **+/-** (E) on the steering wheel remote controls.

Selecting the voice guidance output speakers

Select the speakers:

1. Press **CONFIG** (A).
2. Touch **Audio** tab.
3. Touch ▲ or ▼ to select the second **Audio** page.
4. Touch **Voice guidance speaker output**.
5. Touch either **Driver**, **Front** or **All**.

   The option selected is indicated by ⦿.
6. Touch **Back** to exit.

Changing the Traffic Announcement (TA), phone or startup volume

Adjust the volume settings for either the TA, phone or infotainment system startup:

1. Press **CONFIG** (A).
2. Touch the **Audio** tab.
3. Touch ▲ or ▼ to select the second **Audio** page.
4. Touch **Volume**.
5. **TA**:

   Touch ◄ or ► to adjust the volume.
6. **Phone**:

   Touch ◄ or ► to adjust the volume.
7. **Startup**:

   Touch ◄ or ► to adjust the volume.
8. Touch **Back** to exit.

Radio

General information

Radio reception

Frequency interference and static can occur during normal radio reception if items such as mobile phone chargers, vehicle convenience accessories and external electronic devices are plugged into the accessory power outlet.

If there is interference or static, unplug the item from the accessory power outlet.

AM-FM radio

AM band

The range for most AM stations is greater than for FM, especially at night.

The longer range can cause station frequencies to interfere with each other.

For better radio reception, most AM radio stations boost the power levels during the day and then reduce these levels at night.

Static can also occur when storms and power lines interfere with radio reception. When this happens, reduce the treble on the radio.

FM stereo band

Although the radio has a built-in electronic circuit that automatically works to reduce interference, some static can occur, especially around tall buildings or hills.

RDS (Radio Data System)

RDS encodes information on the system's FM frequency only.

When tuned to an RDS station, the station name is displayed.

Many radio stations transmit RDS information but not all, so it is possible that this feature does not operate in some regions or on some stations.

FM radio text can be switched on or off. See FM radio text on page 107.

Traffic Announcement (TA)

TA bulletins may be broadcast to assist with route planning and avoidance of traffic. See FM Traffic Announcements (TA) on page 107.

The volume of these bulletins can be adjusted. See Changing the Traffic Announcement (TA), phone or startup volume on page 105.

Radio settings

Autoseek sensitivity

The autoseek sensitivity can be changed.

- When **Local** is selected, the radio will seek strong signal stations.

  Loc is displayed.
- When **Distant** is selected, the radio will seek weak signal stations.

  Dis is displayed.
- When **Auto** is selected the first sweep of the frequency band will search local stations and the second sweep will search distant stations.

1. Press **CONFIG** (A).
2. Touch **RADIO** tab.
3. Touch **Autoseek sensitivity**.
4. Touch either **Local**, **Distance** or **Auto**.

   The option selected is indicated by ⦿.
5. Touch **Back** to exit.

FM radio text

FM radio text can be switched on or off.

If additional Radio Data System (RDS) information is received from the currently tuned radio station it appears on the infotainment screen.

1. Press **CONFIG** (A).
2. Touch **RADIO** tab.
3. Touch **FM**.
4. **Radio text**:

   Touch **On** or **Off**.

   The option selected is indicated by ⦿.
5. Touch **Back** to exit.

FM Alternate Frequency (AF)

When AF is switched on and the current FM station becomes too weak, the radio switches to a stronger RDS capable station with the same program identifier code.

AF can be switched on or off.

1. Press **CONFIG** (A).
2. Touch **RADIO** tab.
3. Touch **FM**.
4. **Alternate frequency**:

   Touch **On** or **Off**.

   AF is displayed when selected.

   The option selected is indicated by ⦿.
5. Touch **Back** to exit.

FM Traffic Announcements (TA)

When TA is switched on and an announcement is transmitted, it will be audible via the radio.

TA can be switched on or off.

1. Press **RADIO** (O).
2. Touch **FM**.
3. Touch **More**.
4. Touch **TA On**.

   TP search pop-up is displayed.

   The radio searches for TP stations.
5. To cancel TA search, touch **Cancel**.

Note

- If no TP station is found, **No TP station** is displayed.
- When seeking a station, only TP stations will be found. See Seek on page 109.
- If listening to another source, the TA will still be audible for the duration of the announcement.

FM Program Type (PTY) Seek

Tune to radio stations by program type.

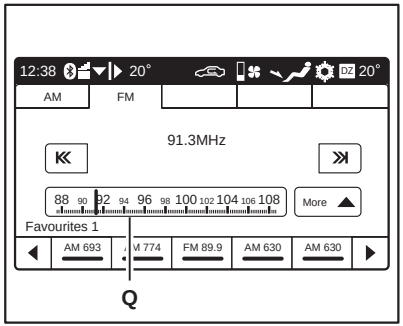
There are six categories: Pop, Country, Classic, Jazz, Rock and Any.

1. Press **RADIO** (O).
2. Touch **FM**.
3. Touch **More**.
4. Touch **PTY List**.

   The list is displayed.
5. Touch a program type.

   The radio searches for the selected program type stations.

Frequency bar display



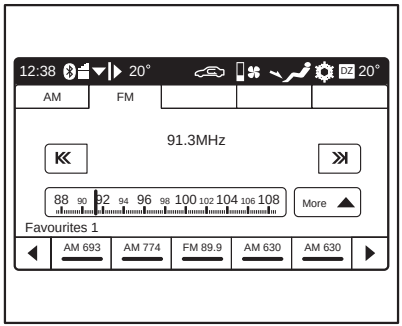
Switch the display of the frequency bar (Q) on or off.

1. Press **CONFIG** (A).
2. Touch **RADIO** tab.
3. Touch **Manual tune**.
4. Touch **On** or **Off**.

   The option selected is indicated by ⦿.
5. Touch **Back** to exit.

Station search

Selecting a band



- Press **RADIO** (O) or touch the tab to either select AM or FM.

  The selected band is shown by the tab on the infotainment screen.

Manual tune

Manually tune to a radio station:

1. Press **RADIO** (O) to either select the AM or FM band.
2. Rotate **TUNE** (J).

   Alternatively, press ≪ or ≫ to tune to the next available radio station.

Seek

Automatically seek for the next or previous radio station.

During seek audio is muted.

1. Press **RADIO** (O) to either select the AM or FM band.
2. Press or touch ⏮ or ⏭.

   The radio seeks for the previous or next strongest radio station in the selected band.

Note

When TA is switched on, only TA stations will be found. To seek all stations, switch TA off. See FM Traffic Announcements (TA) on page 107.

Frequency scan

The radio will scan through the frequencies, pausing for 10 seconds when a station is found.

1. Press **RADIO** (O) to either select the AM or FM band.
2. Touch **More**.
3. Touch **Frequency scan**.

   To cancel the scan, touch any button.

   Stations may be stored to Presets during the scan. See Storing a radio station in the favourite lists on page 110.

   The scan will need to be restarted after storing a station.

Preset stations

- There are three favourite lists for storing radio stations.
- The favourite lists are stored across AM and FM stations.
- There are two autostore lists, one for AM stations and one for FM stations.
- There are five presets in each list.

Storing radio stations in the autostore list

The radio will scan the entire band, select the stations with the best reception quality and store them in the AM or FM autostore list.

1. Press **RADIO** (O) to either select the AM or FM band.
2. Touch **More**.
3. Touch **Show autostore**.

   AM or FM autostore list will be enabled.
4. Touch **More**.
5. Touch **Autostore search**.

   Autostoring AM/FM stations is displayed.

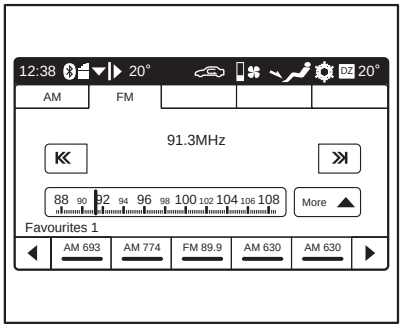
   Autostore scans the corresponding band and stores the first five strongest stations.

   When Autostore is completed the first stored station is selected.
6. To cancel Autostore, touch **Cancel**.

Storing a radio station in the favourite lists

Store a radio station under any preset:

1. Press **RADIO** (O) to either select the AM or FM band.
2. Seek for a radio station either manually or automatically.



3. Touch and hold the preset station to be stored.

   A beep sounds.
4. The radio station is stored.

Recall a favourite station

Recall a station from the favourite lists.

1. Press **RADIO** (O) to either select the AM or FM band.
2. Touch the preset.

   To select an alternate favourite list, touch ◄ or ►.

Audio players

CD player

The vehicle may have a CD player or a virtual CD changer (VCDC).

Compact disc player (CD player)

A single CD player can play one CD at a time.

Virtual Compact Disc Changer (VCDC player)

A virtual CD player stores CDs in the internal memory of the audio system which can be played.

Caution

If a label is added to a CD, or more than one CD is inserted into the slot at a time or an attempt is made to play scratched or damaged CDs, the CD player could be damaged.

Use only CDs in good condition without any labels, load one CD at a time and keep the CD player and the loading slot free of foreign materials, liquids and debris.

CD player

General information

Caution

Avoid inserting any foreign objects into the slot of the player.

Failure to observe this may cause malfunction due to the precise mechanism of this unit.

Disc formats

The CD player supports the following disc types:

- Copy protected CDs
- CD-Audio (CD-DA)
- CD-R
- CD-RW

The CD player supports the following media types:

- MP3
- WMA

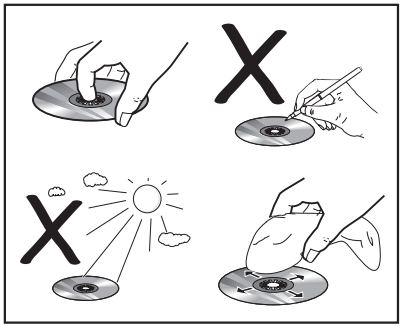
Note

- Only closed session discs can be read. Open session discs will be ignored. The message **Disc Error** will be displayed.
- If a disc has; unreadable formats, unsupported formats or no tracks, then **Disc Error** is displayed for 2 seconds and the disc is ejected.
- Depending on the type of CD-R/CD-RW CDs, some CDs may not operate normally.
- The last played track is held in memory until the CD is removed.

Copy protected audio CDs

Some copy protected CDs may not operate.

Handling CDs

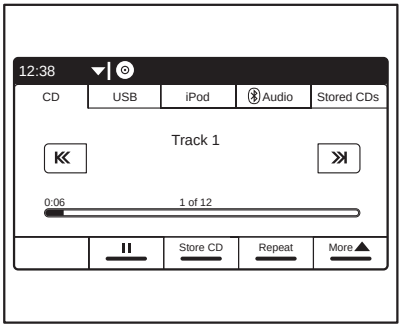


- Avoid leaving fingerprints on the CD when removing it.
- Store any CDs in their protective covers.
- Ensure that CDs are clean and dry before inserting.
- Protect CDs from heat and direct sunlight.

Cleaning the unit

Do not clean using cleaning fluid, alcohol or other solvents. Use only a damp cloth.

Inserting a CD



1. Insert an audio CD into the CD slot.

   Loading CD is displayed.

   ◎: is visible when the climate control display bar is minimised to indicate a CD is loaded.

   The first track of the CD is played automatically.

Ejecting a CD

1. Press △ to eject a CD from the CD slot.

   Ejecting CD is displayed.

Pausing/playing a CD

Touch ⏸ to pause the CD.

Touch ▶ to play the CD.

Go to next track

1. Press or touch ⏭ to go to the next track.

Replay current track

1. Press or touch ⏮ to replay the current track.

Go to previous track

1. Press or touch ⏮ twice within 5 seconds to select and play the previous track.

   Within 5 seconds of the start of a track, pressing or touching ⏮ will select and play the previous track.

Fast forward/backward

Advance the track being played forward and backward.

1. Press/touch and hold either ⏭ or ⏮ to fast forward or fast backward the current track.

Scan track

1. Touch **More** to open the options menu.
2. Touch **Intro scan** to activate the scan track option.

   Scan trk is displayed.

   The next track is selected and played for 10 seconds then the following track is played for 10 seconds until the starting track is reached.
3. To cancel Scan track, touch any button.

Random disc on/off

With random disc on, all tracks on the CD are played in a non-sequential order. No same track is repeated before all the other tracks are played.

1. Touch **CD** tab.
2. Touch **More**.
3. Touch **Random** to switch random play on or off.
4. **Rdm all** is displayed.

MP3

MP3 files are able to be played on the CD player.

The total number of files and folders that can be searched is limited to a pre-defined value.

- The maximum entries per folder is 255 (entries can be folders or files).
- The maximum number of playable files is 999.
- Additional files and folders will be ignored.

Root directory

The root directory is treated as a folder.

All .mp3 files in the root directory are accessed before folders in the root directory.

Empty directory or folder

Empty directories and folders will not show on the display.

The system will ignore them and advance to the next directory or folder that has .mp3 files in it.

No folder

If a CD contains only .mp3 files in the root directory, the next and previous folder functions are not available.

File system and naming

Track names need to be shorter than 39 characters. Names that are longer will be shortened.

The track name will be shown as:

- The song name that is in the ID3 tag.
- The file name without the file extension, if the song name is not in the ID3 tag.

Playing an MP3 CD

Browsing the media list and playing a track

Browse and navigate through the media list, select a track and play it.

1. Insert an MP3 CD into the CD slot.

   Loading CD is displayed.

   The first track of the CD is played automatically, the song title, artist name and album name are shown.
2. Touch **Browse** to open the file list.

   MP3 files and folders are displayed.
3. Touch ▲ or ▼ or rotate **TUNE** (J) to scroll the files and folders.
4. Touch the title, to play the title or touch the folder to open the folder.
5. Touch **Back** to exit.

Repeat current track/folder/off

1. Touch **Repeat** to repeat the current track.
2. Touch **Repeat** twice to repeat the current folder.
3. Touch **Repeat** 3 times to switch off the repeat folder/file function.

Random play

With random on, tracks on the CD are played in a non-sequential order. No same track is repeated before all the other tracks are played.

1. Touch **CD** tab.
2. Touch **More**.
3. Touch **Random** to switch to random mode.

   Rdm fldr or **Rdm all** is displayed.
4. Repeat Steps 2 and 3 to change mode or to turn random play off.

Mass storage media

Virtual CD changer (VCDC)

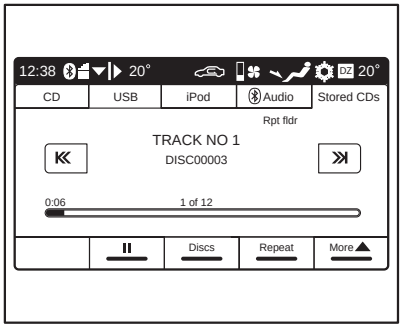
The vehicle may have a virtual CD changer.

Notes on virtual CD

- The audio system will only store audio CDs to the VCDC.

  MP3 and WMA files on a CD cannot be stored to the VCDC.
- The audio system will stop CD playback while storing the audio CD to the VCDC.
- The audio system will always start playback at the first track after storing the audio CD to the VCDC.

Storing an audio CD



Copy an entire audio CD to the VCDC.

1. Insert an audio CD in the CD slot.

   The first track of the CD is played.
2. Touch **Store CD**.

   The currently playing disc will be stored in a free slot. The storage process is displayed.

   The number of empty slots is also shown.
3. Touch **OK** to continue storing and exit.

Notes on storing CDs

- When pressing the **Stored CD** tab when no discs are stored, **No stored discs** is displayed.
- Playback of the audio CD will not be available while the disc is being stored. Other media sources are available during the storing process.
- While storing CDs, only the previously selected stored CD may be played.

Renaming a disc

1. Touch **Stored CDs** tab.
2. Touch **Discs**.

   The list of CDs is displayed.
3. Touch **Rename**.

   If the disc to be renamed is not shown in the list, touch ▲ or ▼, or rotate **TUNE** (J) to scroll through the stored CDs.
4. Touch the disc to be renamed.

   The keyboard is displayed.
5. Use the keyboard to enter the new name (18 characters maximum).
6. Press **OK** to confirm the changes.

   Disc renamed is displayed.

Deleting a disc

1. Touch **Stored CDs** tab.
2. Touch **Discs**.

   The list of CDs is displayed.

   If the disc to delete is not shown in the list, touch ▲ or ▼, or rotate **TUNE** (J) to scroll through the stored CDs.
3. Touch **Delete**.
4. Touch the disc to be deleted.
5. **Delete ***?** is displayed.
6. Press **OK**.

   After deletion the corresponding slot shows **<No Disc>**.

Deleting all discs

1. Touch **Stored CDs** tab.
2. Touch **Delete**.

   The list of CDs is displayed.
3. Touch **Delete all**.

   Delete all discs? is displayed.
4. Press **OK**.

   After deletion, all slots show **<No Disc>**.

Playing a track from a stored disc

1. Touch **Stored CDs** tab.
2. Touch **Discs**.

   The list of CDs is displayed.

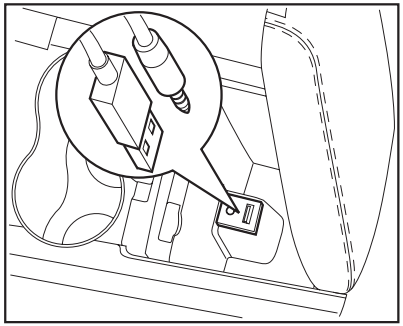
   If the disc to be played is not shown in the list, touch ▲ or ▼, or rotate **TUNE** (J) to scroll through the stored CDs.
3. Touch the disc to be played.
4. Touch the track to be played.

   Playback of the disc will start from the chosen track.

Auxiliary devices

General information

- Devices able to be connected to the infotainment system are; iPod® devices, USB sticks, MP3 players and Bluetooth® (BT) streaming devices.
- Connect using either the USB port, the 3.5 mm socket or Bluetooth®.



The 3.5 mm (front AUX) socket is located under the lid of the centre console, next to the USB port.

Note
The socket has a lift up cover.

iPod®

All audio media types that are supported by the iPod® can be played.

Connecting an iPod®

1. Connect the iPod® using the USB cable supplied with the iPod®, to the USB port.

   The iPod® is automatically detected by the system.
2. **iPod connected...** is displayed.
3. The iPod® menu is displayed.

   The iPod® becomes the current source.
4. The audio system plays the track last played on the iPod®.

   If there are no playable tracks on the iPod®, **No songs in iPod** is displayed and the previously used source will be selected.

   If the connected iPod® is not working or the system is not able to detect the iPod®, **iPod ERROR** is displayed and the previously used source will be selected.

Note
An iPod® may also be connected to the 3.5 mm socket but cannot be controlled via the audio system.

Selecting iPod® as source

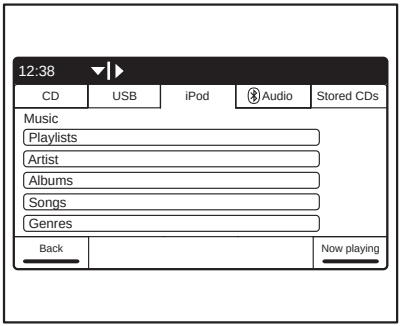
1. Press **Media**.
2. Touch **iPod** tab.

Disconnecting the iPod®

1. Unplug the iPod®.
2. **iPod disconnected...** is displayed.

   The previously used source will be selected.

Searching for a song via the playlists



1. Touch **Browse**.

   The iPod® music menu is displayed, showing:

   - Playlists
   - Artists
   - Albums
   - Songs
   - Genres
2. Touch **Playlists**.

   The playlists are displayed.
3. Touch ▲ or ▼, or rotate **TUNE** (J) to scroll the playlists.
4. Touch the playlist to be opened.
5. Touch ▲ or ▼, or rotate **TUNE** (J) to scroll the playlist.

   Touch the track to be played.

Searching for a song via the artist list

1. Touch **Browse**.
2. Touch **Artists**.

   The list of artists is displayed.
3. Touch ▲ or ▼, or rotate **TUNE** (J) to scroll the artists list.
4. Touch the artist name.

   The list of albums is displayed.
5. Touch the album name to be played.
6. Touch ▲ or ▼, or rotate **TUNE** (J) to scroll the list of songs.

   Touch the song to be played.

Searching for a song via the albums list

1. Touch **Browse**.
2. Touch **Albums**.

   The list of albums is displayed.
3. Touch ▲ or ▼, or rotate **TUNE** (J) to scroll the list of albums.
4. Touch the album name to be played.
5. To play the first song:

   Touch the first song on the screen or touch ▲ or ▼, or rotate **TUNE** (J) to scroll the list of songs.

   Touch the song to be played.

Searching for a song via the songs list

1. Touch **Browse**.
2. Touch **Songs**.

   The list of songs is displayed.
3. Touch ▲ or ▼, or rotate **TUNE** (J) to scroll the songs list.
4. Touch the song to be played.

Searching for a song via the genres list

1. Touch **Browse**.
2. Touch **Genres**.

   The list of genres is displayed.
3. Touch ▲ or ▼ to scroll the genres list.
4. Touch the genre to be played.
5. Touch the artists name to be played.
6. Touch the album name to be played.
7. To play the first song:

   Touch the first song on the screen or touch ▲ or ▼, or rotate **TUNE** (J) to scroll the list and touch the song to be played.

Playing songs in random order

Songs on the iPod® are played in random order.

To switch random play on or off:

1. Touch **Random** on the iPod tab.

   Random is displayed.

Playing a song in repeat mode

To switch between repeat all tracks and repeat current track:

1. Touch **Repeat** on the iPod tab.

   Rpt is displayed. All tracks are repeated.

   Rpt trk is displayed. The current track is repeated.

Pausing/playing the iPod®

1. Touch **II** to pause the iPod®.
2. Touch ▶ to play the iPod®.

USB port

General information

A USB stick can be connected to the USB port.

The USB port is located under the lid of the centre console.

⚠Warning

Do not connect USB devices such as; hard discs, multi plug USB hubs or other digital equipment to the USB port.

Connecting other devices can cause malfunction or destroy the audio equipment.

Do not use any equipment that prevents safe driving.

Caution

In rare cases, a USB stick (thumb drive) may not be recognised by the system or may cause a malfunction.

To ensure compatibility with the infotainment system the file system for USB sticks should be FAT32.

The following file formats are supported:

- MP3 (MPEG 1 layer 3)
- WMA (Windows Media Audio)

The total number of files and folders that can be searched is limited to a pre-defined value.

The MP3 player is able to read and play a maximum of:

- 255 entries per folder (entries can be folder or file)
- 999 playable files

Additional files and folders will be ignored.

- The last played track is held in memory until the USB stick is removed.

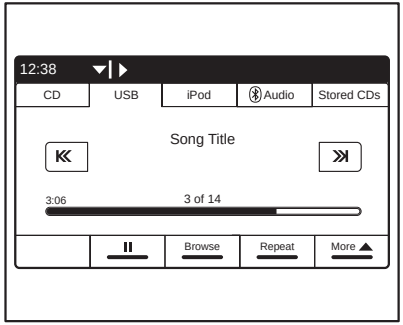
Selecting the USB as source

1. Connect the USB stick to the port.

   The USB device is automatically detected by the system.
2. **Reading media...** is displayed.

   If there are no playable tracks on the USB, **USB device empty** is displayed.

   The previously used source will be selected.
3. The USB menu is displayed and USB will be the current source.
4. The audio system plays the first track in the root directory.



Pausing/playing a song

1. Touch ⏸ to pause a song.
2. Touch ▶ to continue playing a song.

Go to next track

1. Touch or press ⏭.

Replay the current track

1. Touch or press ⏮.

Go to the previous track

1. Touch ⏮ twice within 5 seconds to select and play the previous track.

   Within 5 seconds of the start of a track, pressing or touching ⏮ will select and play the previous track.

Fast forward/backward

Advance the track being played forward and backward.

1. Touch or press and hold either ⏭ or ⏮ to fast forward or fast backward the current track.

Repeat current track/folder/off

1. Touch **Repeat** to repeat the current track.

   Rpt trk is displayed.
2. Touch **Repeat** again to repeat the current folder.

   Rpt fldr is displayed.
3. Touch **Repeat** again to switch off.

Random folder/random all/ random off

1. Touch **More**.
2. Touch **Random** to play the tracks in the current folder at random.
3. Touch **More**.
4. Touch **Random** to play all the tracks at random.
5. Touch **More**.
6. Touch **Random** to switch off the random function.

Go to next/previous folder

1. Press either ≫ or ≪ to select the next or previous folder.

   The first track in the folder will be played.

Browsing the media list and playing a track

1. Touch **Browse** in the USB tab.

   The folders and tracks available on the USB will be displayed.
2. Touch ▲ or ▼, or rotate **TUNE** (J) to scroll through the tracks and folders.
3. Touch the track to be played or touch the folder to be opened.

Disconnecting the USB

1. Remove the USB from the port.
2. **Media disconnected** is displayed.

   The previously used source will be selected.

Bluetooth® music

General information

Music may be played from the Bluetooth® (BT) device.

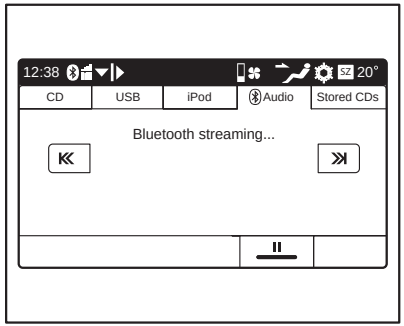
Before uploading music, the Bluetooth® device must be paired with the infotainment system. See Bluetooth® phone on page 151.

Note

- Bluetooth® streaming is not available when an iPod® is connected to the USB port.
- Bluetooth® streaming may need to be reselected as the current source when starting the vehicle.

Operation

Playing/pausing a song



1. Press **Media** (N) or **Audio** on the steering wheel remote controls to select BT audio.

   The **Audio** tab is displayed, showing that **Bluetooth streaming...** has started.

   Note
   Pressing **Audio** on the steering wheel remote controls scrolls through the media sources.

2. When complete the first track will play automatically.
3. Touch ⏸ to pause the song.
4. Touch ▶ to continue playing the song.

Go to the next track

1. Press or touch ⏭ to go to the next track.

Replay the current track

1. Press or touch ⏮ to replay the current track.

Go to the previous track

1. Press or touch ⏮ twice within 5 seconds to select and play the previous track.

   Within 5 seconds of the start of a track, pressing or touching ⏮ will select and play the previous track.

Note
Not all devices will support the track selection controls ⏮ and ⏭.

Navigation

The vehicle may have a navigation system.

The navigation system:

- Allows a route to be planned
- Provides map guidance
- Provides voice prompts during driving

⚠Warning

Information in the system may not always be up-to-date.

Road conditions, such as detours and road construction works, change frequently.

Traffic regulations have priority over any instructions from the navigation system. Always follow the posted traffic signs, speed limits and road restrictions.

General information

Before using the navigation system, read this section thoroughly.

- Become familiar with the system controls and operation.
- Follow the warnings and cautions to prevent the risk of injury to yourself and others and avoid damage to property.
- If an inoperable function is selected, a message may be displayed indicating that the function is not available.
- Navigation guidance is displayed on the infotainment screen and may also be displayed on the instrument panel. See Display navigation on page 141.
- The navigation maps are stored on an SD-card within the navigation system.

  To check for updated map availability, contact a Holden Dealer.
- To scroll the map view, touch a position on the map to centre the view.
- Pressing NAV on the steering wheel controls will display:

  The navigation page when not in guidance mode.

  The map when in guidance mode.
- Additional route information may be transmitted by voice guidance.

⚠Danger

Giving extended attention to navigation tasks while driving will greatly increase the risk of a collision that may cause personal injury or death.

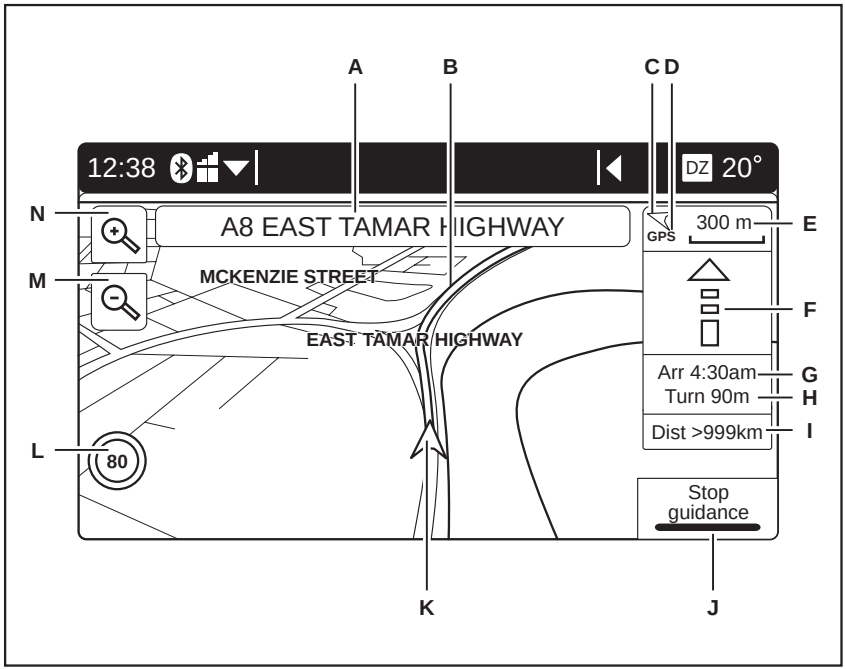
Road safety has absolute priority!

Only operate this system if the road and traffic conditions allow you to do so.

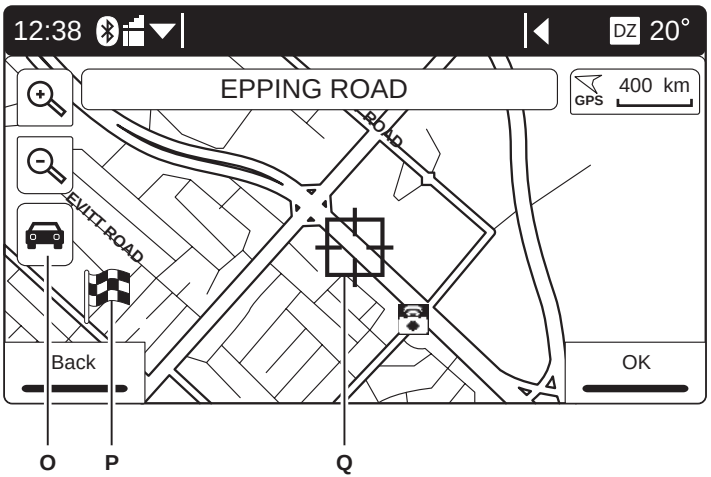
The driver's full attention is always required while driving.

Use voice guidance directions whenever possible.

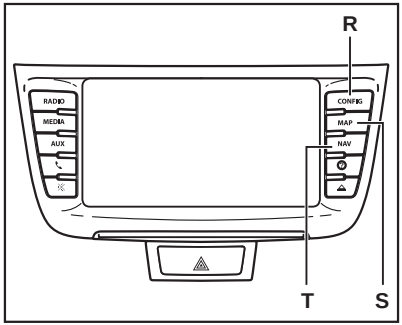
Overview



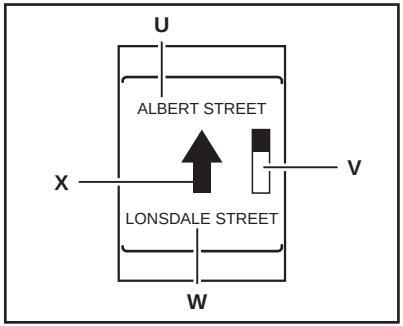
A. Current road
B. Planned route
C. Compass
D. GPS reception
E. Selected map scale
F. Navigation prompt
G. Estimated arrival time
H. Distance to turn/instruction
I. Distance to destination
J. Stop guidance
K. Current vehicle position and direction
L. Road speed limit
M. Zoom out
N. Zoom in



O. Show current location
P. Destination flag
Q. Destination on the map



R. Configuration menu button
S. Display map view
T. Navigation settings



U. Next street name or distance counter

V. Distance indicator bar

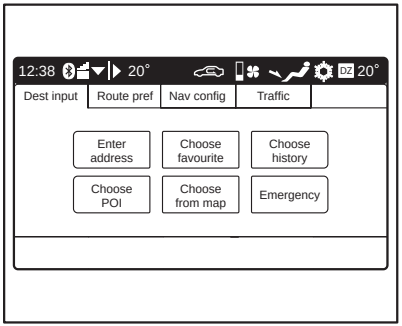
W. Current street name

X. Direction symbol

Getting started

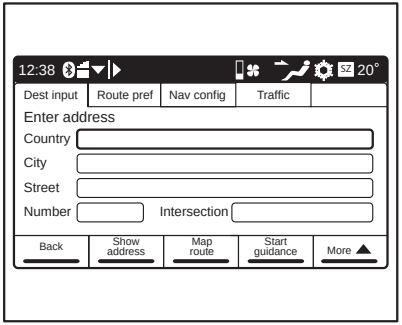
Information may be entered into the navigation system using the on screen keyboard or by selecting a point on a map.

Destination address



To enter a destination address:

1. Press **NAV**.
2. Touch **Dest input** tab.



3. Touch **Enter address**.
4. Touch **Country** input box.

   Enter the country's name or enter the first letter(s) .

   Touch **List** to select the country from the list.

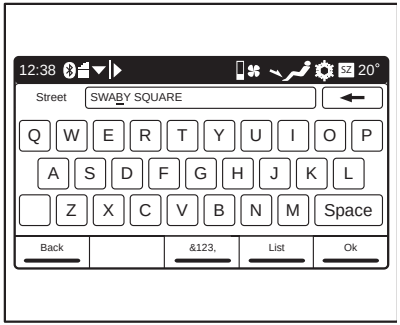
   Touch **OK** to enter.
5. Touch **City** input box.

   Enter the name of the city or enter the first letter(s).

   Touch **List** to select the city from the list.

   Touch **OK** to enter.

Note
Enter a suburb name or a city name to cover a larger search area.



6. Touch **Street** input box.

   Enter the name of the street or enter the first letter(s).

   Touch **List** to select the street from the list.

   Touch **OK** to enter.

7. Touch **Number** input box.

   Enter the street number if required.

   Touch **OK** to enter.

8. Touch **Intersection** input box.

   Enter the name of the street or enter the first letter(s) .

   Touch **List** to select the street from the list.

   Touch **OK** to enter.

9. Touch **Start guidance** to calculate and return to the map screen. The system is ready for departure.

   Alternatively, touch **Map route** to show route on the map screen, without guidance.

Simulating a trip

Simulate a trip from the current position to the final destination, along an entered route.

The calculated route is highlighted on the map.

Note
This function is only available when the vehicle is stationary.

1. Enter the destination by following Steps 1 to 8 on page 127.
2. Touch **More**.
3. Touch **Simulate trip**.
4. Touch **Current position**. Simulation begins.

   Alternatively, touch **Choose address**.

   Enter the start address.

   Alternatively, touch **Cancel** to close the pop-up.

5. Touch **OK**.

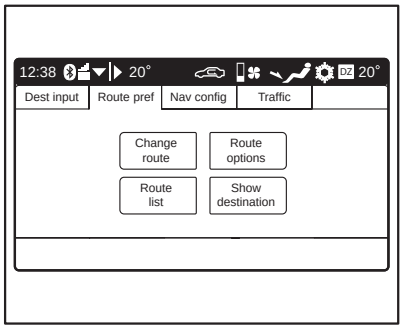
   A pop-up is displayed.

   Simulation begins.

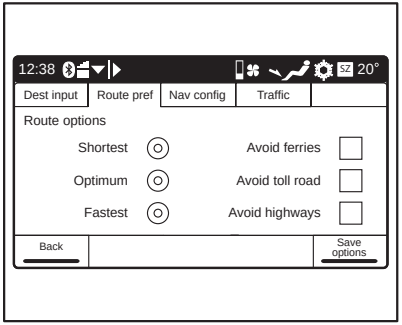
6. Touch **Stop guidance** to cancel simulation.

Plan route

Setting route options



1. Press **NAV**.
2. Touch **Route pref** tab.



3. Touch **Route options**.

   Select from:

   - **Shortest**: (the route is calculated based on the shortest distance).
   - **Optimum**: (the route is calculated based on estimated travel distance and estimated travel time with a balance of 50% driving distance and 50% driving time).
   - **Fastest**: (the route is calculated based on the fastest route in time).

   The option selected is indicated by ⦿.

4. Select what to avoid:

   - **Avoid ferries**
   - **Avoid toll road**
   - **Avoid highways**

   The option selected is indicated by ✓.

5. Touch **Save options**.

   The route will be recalculated and the map screen displayed.

   Alternatively, touch **Back** to return to the previous screen.

Viewing the route list

View details of the current journey plan in a list view.

This includes the address of the starting point, final destination and all the streets/roads along the way.

If stages are added, they are also included in the list view.

When navigation is active and any of the streets have been passed, they will be removed from the list.

Note
This option is only available when a Destination is selected.

1. Press **NAV**.
2. Touch **Route pref** tab.
3. Touch **Route list**.
4. Touch the route option to be viewed in detail:
   - Distance to this point
   - Length
   - City

   Touch ▼ or ▲ to select next or previous page if available.
5. Touch **Back** to return to the previous screen.

Viewing destination

View the destination selected, on the map.

Note
This option is only available in Guidance mode and with the route already calculated.

1. Press **NAV**.
2. Touch **Route pref** tab.
3. Touch **Show destination**.

   The map with the destination is shown.

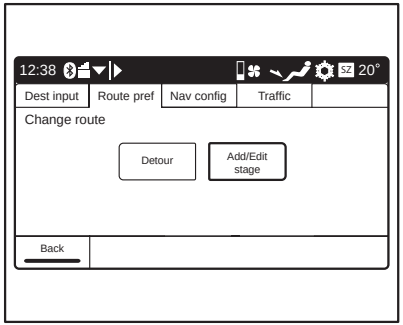
Changing selected route

Insert a stage into an existing route or a journey plan.

- Add up to three stages.
- During active guidance every stage entered will be treated as a new address before the final destination.
- With a journey plan, a stage is integrated into the route and indicated as an intermediate stage.
- is displayed on the map.

Adding/editing/rearranging stages

Add to a journey, edit an existing stage or re-order entered stages.



1. Press **NAV**.
2. Touch **Route pref** tab.
3. Touch **Change route**.
4. Touch **Add/Edit stage**.
5. Touch **Add**.

   Dest input tab is displayed.
6. Touch the option you would like to select as the stage.

   Touch **OK** to enter.
7. To change the order of the entered stages, touch **Reorder Stage**.
8. To relocate added stages, touch the stage to be moved.
9. Touch either **Move up** or **Move down** (depending on the stages location).
10. Touch **Back**.
11. Touch **Save route**.

    The selected route is recalculated.

    Guidance is started and the navigation screen with the calculated route is shown.
12. To cancel guidance touch **Stop guidance**.

Deleting a stage

Delete a stage from an existing route or journey plan.

1. Press **NAV**.
2. Touch **Route pref** tab.
3. Touch **Change route**.
4. Touch **Add/Edit stage**.
5. Touch **Delete stage**.

   Touch the stage to be deleted from the list.
6. Confirm the selection.

   Touch **OK** to delete the selected address or touch **Cancel**.
7. Touch **Back** to return to the previous screen.
8. Touch **Save route** to continue guidance.

Detour

Set a distance to detour from the current route.

The system automatically calculates a new route based on the distance to detour, to avoid the current road for the selected distance.

1. Press **NAV**.
2. Touch **Route pref** tab.
3. Touch **Change route**.
4. Touch **Detour**.
5. Touch the distance (selected distance is marked by *).

   The detour will be calculated.
6. Press **Map** to return to map view and continue guidance.

To clear detours:

1. Press **NAV**.
2. Touch **Route pref** tab.
3. Touch **Change route**.
4. Touch **Detour**.
5. Touch **Clear detours** to clear all settings.
6. Touch **Back** to return to the previous screen.
7. Touch **Map** to return to map view and continue guidance.

Destinations

Entering an address via its geographical co-ordinates

Enter an address using the latitude and longitude.

The geographical coordinates have to be entered in the corresponding fields.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Enter address**.
4. Touch **More**.
5. Touch **Input via co-ords**.
6. Enter the geographical coordinates using the on screen keyboard.
7. If required touch **S** (South) to switch to **N** (North) and vice versa. Touch **E** (East) to switch to **W** (West) and vice versa.

8. Touch **Map route** to calculate the route and display on the map.

   Note
   The map zoom function is not available with this feature.

9. Touch **Back** to exit and to return to the previous screen.
10. Touch **Start guidance** to calculate the route and return to the map screen and start guidance.

Entering a destination from map view

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose from map**.

   Position ⌖ to desired destination.

   The destination street or geographical co-ordinates will be displayed after a few seconds.
4. Touch **OK** to select destination.
5. Touch **Start guidance** to calculate the route and return to the map screen and start guidance.

Saving an address as a favourite

Save an entered destination address as a general favourite, home or work address. See Destination address on page 127.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Enter address** to enter a new address or select an existing address.
4. Touch **More**.
5. Touch **Save as**.
6. A pop-up is displayed.

   Save the address under Favourites, Home or Work.
7. Touch selection to save the destination or touch **Cancel** to return to the previous screen.

Renaming an address

Rename any destination address in the favourites list, except <Home> and <Work>.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose favourite**.
4. Touch **Rename**.

   Touch the entry to be renamed.
5. Enter the new name using the on screen keyboard.
6. Touch **OK** to rename.
7. Touch **Back** to return to the previous screen.

   The previous selected entry will be renamed and will appear under its new name in the Favourites List.

Deleting an address

Delete an address from the favourites list.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose favourite**.
4. Touch **Delete**.
5. Touch the Entry to be deleted from the Favourites list.

   The **Delete favourite** pop-up is displayed.
6. Touch **OK**.

   The selected entry will be deleted from the Favourites list.

Deleting all addresses

Delete all addresses from the favourites list.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose favourite**.
4. Touch **Delete**.
5. Touch **Delete all**.

   The **Delete all favourites** pop-up is displayed.
6. Touch **OK**.

   All addresses will be deleted from the favourites list.

Viewing a destination address

View a destination address on the map.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose favourite**, **Choose history** or **Choose POI**.
4. Select the destination address to be viewed on the map.
5. Touch **Show address**.

   The map is displayed.

   The address is indicated by ⌖.
6. Zoom in or out on the address.
7. Touch **Back** to exit and to return to the previous screen.

Selecting an address

Select a destination address from the favourites list.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose favourite**.
4. Touch the favourite to be selected.

   If the favourite is not shown on the first page, touch ▼ to select the next page.

   The address is displayed in the Enter Address screen.
5. Touch **Back** to return to the previous screen.

Selecting a history address

Select a previously entered destination address from the history list or delete the complete history list.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose history**.
4. Touch an address to select it.

   Touch ▼ or ▲ to select the next or previous page if available.
5. Touch **Back** to exit and to return to the previous screen.

Deleting history addresses

To delete all history addresses from the list.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose history**.
4. Touch **Clear all**.
5. The Clear History List pop-up is displayed.
6. Touch **OK** to confirm.
7. Touch **Back** to exit and return to the previous screen.

Points of interest

Select Points of Interest (POI) either by name or by category near to the current vehicle position, around the destination or near an address.

- **By name**: Enter the name of the POI by the company name.
- **By category**: Browse the POI for restaurants, petrol stations, airport etc.

POI near the current position

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose POI**.
4. Touch **current position**.
5. Select the POI either **By name** or **By category**.

   Alternatively, touch **Cancel** to exit.

If entering by name:

1. Enter the name using the on screen keyboard.
2. Touch **OK**.
3. Touch listed POI to select it.

   Touch ▼ or ▲ to select the next or previous page if available.
4. Touch **Start guidance** to calculate the route and return to the map screen.

If entering by category:

1. Touch listed category to select.
2. Touch listed POI to select it.
3. Touch ▼ or ▲ to select the next or previous page if available.

   Note
   If there are over 50 results, touch **Next batch** for the next 50 results.
4. Touch **Start guidance** to calculate the route and return to the map screen.
5. Touch **Back** to return to the previous screen.

POI near the destination (available during guidance mode only)

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose POI**.
4. Touch **destination**.
5. Select the POI either **By name** or **By category**.

   Alternatively, touch **Cancel** to exit.
6. Touch **Back** to return to the previous screen.

If entering by name:

1. Enter the name using the on screen keyboard.
2. Touch **OK**.
3. Touch listed POI to select it.

   Touch ▼ or ▲ to select the next or previous page if available.
4. Touch **Start guidance** to calculate the route and return to the map screen.

If entering by category:

1. Touch listed category to select.
2. Touch listed POI to select it.
3. Touch ▼ or ▲ to select the next or previous page if available.

   Note
   If there are over 50 results, touch **Next batch** for the next 50 results.
4. Touch **Start guidance** to calculate the route and return to the map screen.
5. Touch **Back** to return to the previous screen.

POI near an address (available during non-guidance mode only)

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Choose POI**.
4. Touch **an address**.
5. Enter an address using the on screen keyboard.
6. Touch **OK**.
7. Select the POI either **By name** or **By category**.

   Alternatively, touch **Cancel** to exit.
8. Touch **Back** to return to the previous screen.

If entering by name:

1. Enter the name using the on screen keyboard.
2. Touch **OK**.
3. Touch listed POI to select it.

   Touch ▼ or ▲ to select the next or previous page if available.
4. Touch **Start guidance** to calculate the route and return to the map screen.

If entering by category:

1. Touch listed category to select.
2. Touch listed POI to select it.
3. Touch ▼ or ▲ to select the next or previous page if available.

   Note
   If there are over 50 results, touch **Next batch** for the next 50 results.
4. Touch **Start guidance** to calculate the route and return to the map screen.
5. Touch **Back** to return to the previous screen.

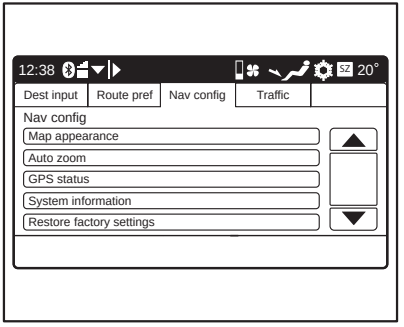
Emergency destination

Select an emergency destination.

1. Press **NAV**.
2. Touch **Dest input** tab.
3. Touch **Emergency**.
4. Touch the emergency destination to be selected from the Emergency List.
   - **Police Station**
   - **Hospital**

   If the emergency destination is not displayed, touch ▲ or ▼ to select the previous or next page.
5. Touch listed destination to select.
6. Touch **Start guidance** to calculate the route and return to the map screen.

Configuring the navigation system



Change the configuration settings or view navigation information using **Nav config**.

Available are:

- Map appearance
- Auto zoom
- GPS status
- System information
- Restore factory settings
- Traffic management settings
- Points of Interest (POI)

- Alert points
- Alert points feedback
- Speed limit warnings

Voice guidance settings may also be changed.

Voice guidance speaker output:

1. Press **CONFIG**.
2. Touch **Audio** tab.
3. Touch **Voice guidance speaker output**.

   Select from: **Driver**, **Front** or **All**.

   The option selected is indicated by ⦿.
4. Touch **Back** to return to the previous screen.

Voice guidance volume:

1. Press **CONFIG**.
2. Touch **Audio** tab.
3. Touch **Voice guidance volume**.

   Select from: **On** or **Off**.

   The option selected is indicated by ⦿.
4. Touch ◄ or ► to adjust the volume.

   During voice guidance, rotate **VOL** to adjust the volume.
5. Touch **Back** to return to the previous screen.

Map appearance

Change the appearance of the map on the screen.

1. Press **NAV**.
2. Touch **Nav config** tab.
3. Touch **Map appearance**
   - **Map facing**: Either **Heading up** or **North up**.
   - **Map view**: Either **2D** or **3D** (not selectable in North Up view).
   - **Brightness mode**: Either **Day**, **Night** or **Auto**.

   The option selected is indicated by ⦿.
4. Touch **Back** to save the settings and to return to the previous screen.

Automatic zoom

Automatically zoom in on the approaching manoeuvre point, to view in detail.

1. Press **NAV**.
2. Touch **Nav config** tab.
3. Touch **Auto zoom**.
4. Touch either **On** or **Off**.

   The option selected is indicated by ⦿.
5. Touch **Back** to save the settings and to return to the previous screen.

Restore factory settings

With this option, all navigation favourites will be erased.

1. Press **NAV**.
2. Touch **Nav config** tab.
3. Touch **Restore factory settings**.
4. Touch **OK** if you want to restore the factory settings or touch **Cancel** to exit without resetting the factory settings.

Viewing GPS status

Look up the status and accuracy of the GPS signal.

1. Fix:
   - Searching: The system is searching for satellites.
   - Tracking: The system finds less than three satellites and starts to evaluate the signal quality of the satellites found.
   - 2D Fix: There are a minimum of three available satellites to calculate the position.
   - 3D Fix: There are at least four available satellites with good signal quality.
2. Current No. of Satellites: Indicates the number of available satellites.
3. HDOP (GPS Accuracy): Indicates the quality of the satellite reception. The lower the number, the better the reception quality is.
4. Latitude/Longitude: Indicates the current position of the vehicle on the globe.

   This information is based on the GPS satellite signals.

   To view this information:

   1. Press **NAV**.
   2. Touch **Nav config** tab.
   3. Touch **GPS status**.

      The GPS status is displayed.
   4. Touch **Back** to exit and to return to the previous screen.

System information

View the system information such as platform, software version and map database.

1. Press **NAV**.
2. Touch **Nav config** tab.
3. Touch **System information**.

   The GPS status is displayed.
4. Touch **Back** to exit and return to the previous screen.

POI settings

Select POI's to display on the map.

1. Press **NAV**.
2. Touch **Nav config** tab.
3. Touch ▼ to select the second **Navigation config** page.
4. Touch **POI selection**.
5. Touch to select the **POI** you want to display.

   The POI selected is indicated with an *.

   Touch ▼ or ▲ to select the next or previous page.

   To clear all selected POI's touch **Clear all**.
6. Touch **Back** to exit and to return to the previous screen.

Display navigation

To view the navigation display on the instrument panel:

1. Press **TRIP** to navigate to the navigation display or press **NAV** on the steering wheel remote controls.

Note

Pressing **NAV** in guidance mode:

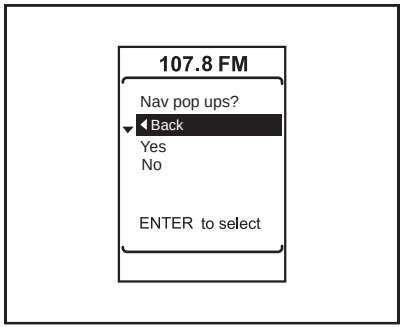
1. The navigation screen is displayed.
2. Repeats the last voice guidance instruction.

Pressing **NAV** in non-guidance mode:

1. The navigation screen is displayed.
2. Displays the current vehicle position.

The display options are changed in the Customisation menu:

1. Press **TRIP** to navigate to the **Customise Options** display.
2. Press the ENTER button.
3. Rotate ▲ or ▼ to select **Navigation**.
4. Press the ENTER button.



Select from:

1. **Nav pop ups?**
   - **Yes**
   - **No**

   Press the ENTER button.

   Note

   When **No** is selected, the navigation display will only be visible when the navigation display is selected on the instrument panel.
2. **Select Speed Limit Warning?**
   - **Disable**
   - **Enable**

   Press the ENTER button.
3. **Select Speed Limit Flash?**
   - **Disable Flash**
   - **At speed limit**

   Press the ENTER button.

   Note

   Select a speed, over the current limit, for when to flash the speed limit warning.

Alert points and alert feedback

When switched on, a warning of an approaching alert point may be shown on the infotainment screen or heard through the speakers.

- When **All screens** is selected, audio feedback and a message is displayed on the infotainment screen.
- When **Map screens** is selected, audio feedback and a message are displayed in map view only.
- When **Off** is selected, no alert information is given.
- During a phone call only a display will appear on the infotainment screen without any audio feedback.
- Alert information is available on railway crossings, speed and red light cameras (safety cameras) and school zones.

- The warnings may also be displayed on the instrument panel.

  To enable or disable, see Display navigation on page 141.

Configuring alert points

1. Press **NAV**.
2. Touch **Nav config** tab.
3. Touch ▼ to select the second Nav config page.
4. Touch **Alert points**.
5. Select **Alert points** as required.

   The option selected is indicated by ⦿.
6. Touch **Back** to exit and to return to the previous screen.

Configuring alert point feedback (audio chime)

1. Press **NAV**.
2. Touch **Nav config** tab.
3. Touch ▼ to select the second Nav config page.
4. Touch **Alert points feedback**.
5. Touch the corresponding button to switch Alert point feedback on or off.

   The option selected is indicated by ⦿.
6. Touch **Back** to exit and to return to the previous screen.

Configuring speed limit warnings

Where available, the navigation system displays the documented speed limit for the current road.

If the vehicle speed:

- Is less than the navigation system speed limit, the speed symbol will be grey.
- Is greater than the navigation system speed limit, the speed symbol will be coloured red.

  There is no audio alert with this warning.

⚠Warning

Information in the system may not always be up-to-date.

Road conditions, such as detours and road construction works, change frequently.

Traffic regulations have priority over any instructions from the navigation system. Always follow the posted traffic signs, speed limits and road restrictions.

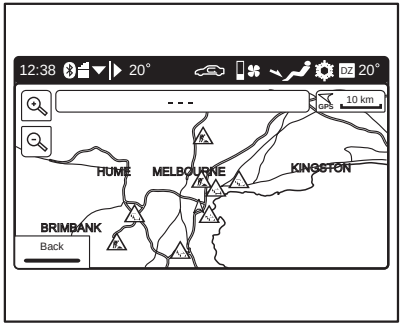
This feature is available in guidance and non-guidance modes.

1. Press **NAV**.
2. Touch **Nav config** tab.
3. Touch ▼ to select the second Nav config page.
4. Touch **Speed limit warnings**.
5. Touch the corresponding button to switch Speed limit warnings on or off.

   The option selected is indicated by ⦿.
6. Touch **Back** to exit and to return to the previous screen.

Traffic Message Channel (TMC)

TMC provides traffic and travel information.



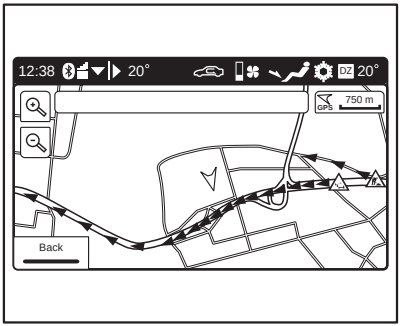
The information is displayed in map view using symbols. See TMC symbols on page 147.

TMC is digitally coded using the FM-RDS system on conventional FM radio broadcasts.

Traffic information is only available in areas where it is specifically provided by local FM radio stations, therefore may not be available in some areas or towns.

TMC may be switched on or off.

Traffic congestion



Traffic congestion on roads is indicated by triangles along that section of road.

The number of displayed triangles is dependant on the map scale displayed, not on the severity of congestion.

The triangles point in the direction of traffic congestion.

Traffic avoidance

Automatic (default setting)

The route is continuously calculated. If a better route is available than the current one, the alternative route is activated immediately.

Manual

In manual mode an alternate route is suggested. The option is given to select an alternate route.

Switching traffic avoidance on/off

1. Press **NAV**.
2. Touch the **Nav config** tab.
3. Touch **Traffic management settings**.
4. Touch either **Auto** or **Manual** to switch traffic avoidance on.

   Alternatively, touch **Off** to switch traffic avoidance off.

   The option selected is indicated by ⊙.
5. Touch **Back** to save the settings and return to the previous screen.

Note
When traffic avoidance is off, the RDS-TMC settings are disabled.

Radio Data System - Traffic Message Channel (RDS-TMC)

When traffic avoidance is on, information about traffic on the selected route is displayed.

The RDS-TMC stations provide information relating to:

- Roadworks
- Dangerous vehicles
- Poor visibility etc

Select/deselect the required options via the TMC filter under the tab **Traffic** - **TMC messages**.

RDS-TMC modes

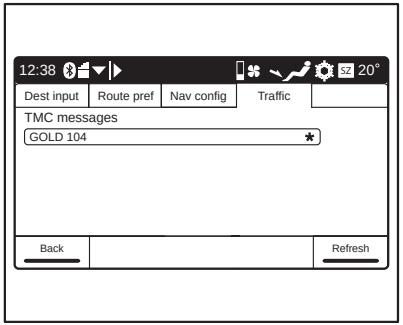
- **Automatic**: The navigation system automatically selects the best TMC station available.
- **Preferred**: Select a preferred TMC station from a list of available TMC stations.

Changing the RDS-TMC settings

1. Press **NAV**.
2. Touch the **Nav config** tab.
3. Touch **Traffic management settings**.
4. Touch either **Automatic** or **Preferred**.

   The option selected is indicated by ⊙.
5. Touch **Back** to save the settings and to return to the previous screen.

Viewing and updating TMC stations



1. Press **NAV**.
2. Touch the **Traffic** tab.
3. Touch **TMC stations**.

   Available TMC stations are displayed.

   The currently selected TMC station is marked with an *.
4. Touch **Refresh** to update the current list.

   Updating TMC stations... will appear on the screen.
5. Touch **Cancel** to cancel the TMC station search.

   Alternatively, touch **Back** to return to the previous screen.

Selecting a TMC station

Select a favourite TMC station.

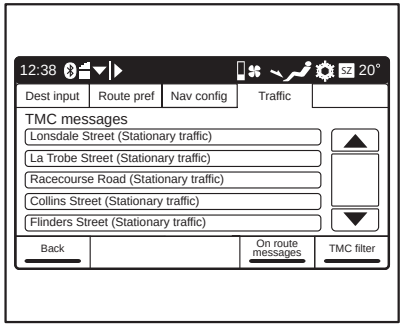
1. Press **NAV**.
2. Touch the **Traffic** tab.
3. Touch **TMC stations**.

   The screen shows available TMC stations.

   The currently selected TMC station is marked with an *.
4. Touch to select a TMC station.

   The selected TMC station is marked with an *.
5. Touch **Back** to return to the previous screen.

Viewing TMC messages



View current TMC messages and update them if required.

1. Press **NAV**.
2. Touch the **Traffic** tab.
3. Touch **TMC messages**.

   Current TMC messages are displayed.

   Touch any TMC message to provide further detail of the TMC event.

On route messages:

Touch **On route messages** when in guidance mode to list all TMC events on the chosen route.

TMC filter:

- Touch **TMC filter** to select acceptable TMC events on any route.
- To personalise TMC events that may be displayed, touch to select or deselect.

  The currently selected TMC events are marked with an *.

4. Touch **Back** to return to the previous screen.

TMC symbols

Accident

Danger

Dangerous vehicle

Delay

Vehicle on wrong carriageway

High winds

No parking

Obstruction

Partly closed road

Poor visibility

Queuing traffic

Road closed

Roadworks

Stationary traffic

Severe weather

Slippery road

Slow traffic

Smog

Faulty traffic signals

Uneven surface

Vehicle breakdown

Warning

Vehicle restrictions:

Restriction

Height

Weight

Hazardous load

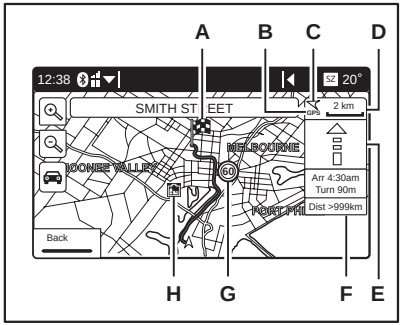
Height/hazardous load

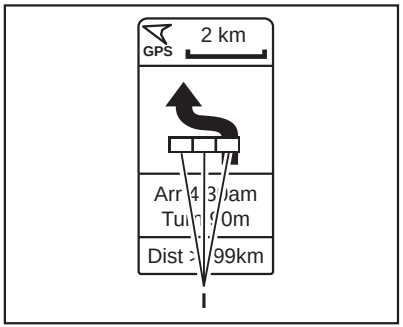
Weight/hazardous load

Multiple restrictions

Navigation map symbols

The following symbols may appear on the map screen.





Flag: After a route has been planned a destination flag (A) indicates the stage or final destination.

Satellite signal: The **GPS** indicator (B) provides satellite signal status.

If there are:

- No satellites available, **GPS** will be red.
- Satellites available, **GPS** will be green.

Map scale: (D) displays the current map scale.

Guidance direction: The direction arrow (E) shows the direction or turn to follow.

- Touch the arrow to repeat the last voice guidance or press **NAV** on the steering wheel remote controls.
- The arrow may also indicate lane guidance on multi-lane roads (I).
- The lane to follow will be indicated in green.
- An optional lane will be indicated in orange.
- Lanes to avoid will be indicated in red.

Distance to destination, destination time and distance to next turn/instruction: (F) displays the distance to the final destination, the estimated arrival time and the distance to the next turn/instruction.

Touch above the direction arrow box to view or to hide the information.

Map view: The A (C) indicates north and which map view configuration is selected.

- 2D map (North Up): North will always be at the top of the map screen regardless of which direction the vehicle is travelling.
- 2D map (Travel direction): The map view is in travel direction.
- 3D Map: The map view is from a 3D elevated position, in the travel direction.
- Touch A (C) to switch between the different views.

Speed limit: The navigation system may display a speed limit symbol (G).

It displays the speed limit for the current road.

If the vehicle speed is:

- Less than the displayed speed limit, the speed symbol will be grey.
- Greater than the displayed speed limit, the speed symbol will be coloured red.

⚠Warning

Information in the system may not always be up-to-date.

Road conditions, such as detours and road construction works, change frequently.

Traffic regulations have priority over any instructions from the navigation system. Always follow the posted traffic signs, speed limits and road restrictions.

POI: A symbol (H) indicates a useful location. The symbols will be displayed when the selected mapscale is less than 500 m.

Point of Interest symbols (POI)

Accommodation

Hotel

Automobile

Auto service, auto dealership

Car rental

Holden dealership

Parking

Petrol/gasoline station

Rest area

Entertainment

Bar and pub

Casino

Cinema

Nightclub

Performing arts

Food

- Coffee shop
- Restaurant

Medical services

- Hospital
- Medical service
- Pharmacy

Services

- ATM
- Bank
- Business facility
- Cemetery
- Court house
- Embassy
- Government office
- Higher education facility
- Place of worship
- Police station
- Post office
- Public library
- Public rest room
- School
- Town centre, city centre
- Town hall

Shopping

- Book store
- Clothing store
- Consumer electronic store
- Convenience store
- Department store
- Grocery store
- Home improvement and hardware store
- Office supply and service store
- Shopping
- Speciality store
- Sporting goods store

Sports and recreation

- Amusement park
- Boat marina
- Bowling centre
- Convention centre
- Golf course
- Historical monument
- Ice skating rink
- Museum
- Park and recreation centre
- Sport centre
- Tourist attractions
- Tourist information
- Winery

Transport

Airport

Bus and coach station

Ferry terminal

Railway station

Taxi

Transportation service

Other

Blackspot

Check speed

Country town exit point

Highway exit

Military base

Railway

School zone

Traffic camera

Bluetooth® phone

General information

Bluetooth® allows users with a Bluetooth® enabled mobile phone to make and receive hands-free calls using the vehicle's infotainment system and controls.

The Bluetooth® enabled mobile phone must be paired to the vehicle's infotainment system before it can be used in the vehicle.

Not all phones will support all functions. For more information visit: www.holden.com.au.

The following symbols may be displayed at the top of the infotainment screen:

: Bluetooth® device connected

Blue symbol: Paired

Grey symbol: In discoverable mode, or Pairing In Progress, or Connection In Progress

: Mobile phone signal strength

: Mobile phone battery status

Bluetooth® also allows streaming of music files from a device, if files are available. See Bluetooth® music on page 123.

⚠Warning

Do not use a mobile phone when driving.

Make sure that Bluetooth® is activated before driving. If not stop at a safe place to use a mobile phone.

Pairing

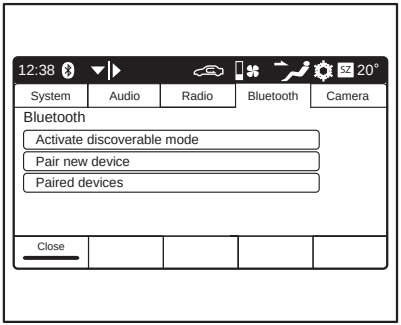
A Bluetooth® enabled mobile phone must be paired to the in-vehicle Bluetooth® system, then connected to the vehicle before it can be used.

See the mobile phone manufacturers user guide for Bluetooth® functions before pairing the mobile phone.

- Up to five mobile phones can be paired to the in-vehicle Bluetooth® system.
- The in-vehicle Bluetooth® system automatically links with the first available paired mobile phone in the order the phone was paired.
- Only one paired mobile phone can be connected to the in-vehicle Bluetooth® system at a time.
- Before pairing a new device, ensure that no devices are currently connected.
- Pairing should only need to be completed once, unless changes to the pairing information have been made or the phone is deleted.

Note
A Bluetooth® device without phone features may also be paired to use BT streaming.

Bluetooth® pairing initiated via the mobile phone



1. Press **CONFIG**.
2. Touch **Bluetooth** tab.
3. Touch **Activate discoverable mode**.
4. **Discoverable for 5 minutes** is displayed.
5. Use your mobile phone to pair it with the infotainment system.
6. Choose a 4 digit code and enter it when **Enter 4 digit code** is displayed.
7. Touch **OK**.
8. Enter the 4 digit code into the mobile phone to pair it.
9. **Pairing completed** will be displayed.

Pairing a Bluetooth® device with the infotainment system

1. Switch the Bluetooth® device on.
2. Press **CONFIG**.
3. Touch **Bluetooth** tab.
4. Touch **Pair new device**.

   Searching for Bluetooth devices is displayed.
5. Touch **Refresh**.
6. The detected Bluetooth® devices are displayed.
7. Touch the Bluetooth® device.

   Pairing device... is displayed.

   Enter code XXXX into device is displayed.

8. Enter the shown code into the mobile phone to start pairing.

   If pairing failed, **Pairing failed** is displayed.

   If pairing was successful, **Pairing completed** is displayed.
9. Pairing is now completed.

   Add up to five devices to the Last paired devices list.

Deleting a Bluetooth® device

1. Press **CONFIG**.
2. Touch **Bluetooth** tab.
3. Touch **Paired devices**.

   A list of paired devices is displayed.
4. Touch **Delete**.
5. Touch the device to be deleted.

   Delete the paired device <*Device Name*> is displayed.
6. Touch **OK**.

   The device will be deleted from the Last paired devices list.

Connecting another Bluetooth® device

Connect an extra Bluetooth® device and disconnect the currently paired device without deleting the device from the Last paired devices list.

1. Switch the extra Bluetooth® device on, to be paired, and prepare it for pairing.
2. Press **CONFIG**.
3. Touch **Bluetooth** tab.
4. Touch **Paired devices**.

   The current connection is marked with an asterisk on the right hand side.
5. Touch the device to be paired on the Last paired devices list.

   The pop-up **Connect** <*Device Name*> **?** is displayed.

   The currently connected device will be disconnected.
6. Touch **OK**.

   Disconnecting device... is displayed.

   You may be asked to enter the code into the mobile phone.
7. **Connecting...** is displayed.
8. Pairing of the new device is now completed.

Auto-connecting a Bluetooth® device

1. Switch the Bluetooth® device on.
2. Switch the infotainment system on.

   Bluetooth® searches for an automatic connection with the device in the Last paired device list.
3. **Device** <*Device Name*> **is connected** is displayed.

Accepting/rejecting an incoming phone call

When an incoming call is received, audio from the infotainment system is muted and a ring tone sounds via the vehicle speakers.

The caller phone number or name is displayed in the **Phone** tab.

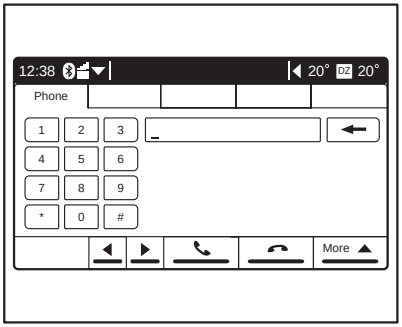
1. Touch or press on the steering wheel controls to accept the call.

   Call in progress, as well as the callers phone number and the time of the connection are displayed.
2. To reject the incoming call, touch .

Ending a call

1. Touch or press on the steering wheel controls to end a call.

Making a direct outgoing call



1. Touch or press on the steering wheel controls to open the phone screen.
2. Enter the phone number on the key pad.

   To enter **+**, press and hold the **0** button.
3. Touch to dial the entered phone number.

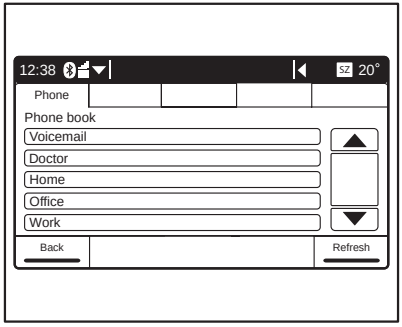
   While the connection is being made, **Calling ...** is displayed.

Making a call from the phone's address book

Access the phone's address book through the infotainment system.

For phones that support this feature, refer to: www.holden.com.au

1. Activate the **Phone** menu screen.
2. Touch **More**.



3. Touch **Phone book**.

   The Phone book is displayed.

4. Touch the person's name to be dialled.

   If the name of the person is not visible in the list, press ▼ or ▲, or rotate **TUNE** to select the person from the Address Book.

   Call <*Name*> is displayed.

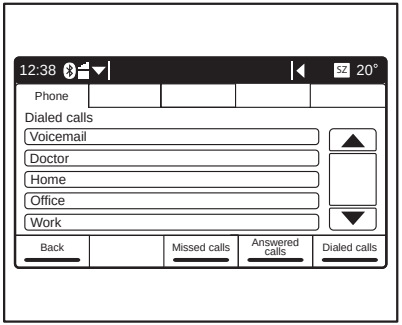
5. Touch **OK** to start dialling.

Making a call from the dialled calls list

Access the phone's dialled call list through the infotainment system.

For phones that support this feature, refer to: www.holden.com.au

1. Activate the **Phone** menu screen.
2. Touch **More**.



3. Touch **Call history**.

   Dialled calls list is displayed.

4. Touch the name of the person to be called.

   If the name of the person is not visible, press the ▼ or ▲, or rotate **TUNE** to select the person from the Dialled Calls list.

   Call <*Name*> is displayed.

5. Touch **OK** to start dialling.

Making a call from the answered calls list

Access the phone's answered call list through the infotainment system.

For phones that support this feature, refer to: www.holden.com.au

1. Activate the **Phone** menu screen.
2. Touch **More**.
3. Touch **Call history**.

   Dialled calls list is displayed.
4. Touch **Answered calls**.
5. Touch the name of the person to be called back.

   If the name of the person is not visible, press ▼ or ▲, or rotate **TUNE** to select the person from the Answered calls list.

   Call <*Name*> is displayed.
6. Press **OK** to start dialling.

Making a call from the missed calls list

Access your phone's missed call list through the infotainment system.

For phones that support this feature, refer to: www.holden.com.au

1. Activate the **Phone** menu screen.
2. Touch **More**.
3. Touch **Call history**.

   Dialled calls is displayed.
4. Touch **Missed calls**.
5. Touch the name of the person to be called back.

   If the name of the person is not visible, press ▼ or ▲, or rotate **TUNE** to select the person from the Missed calls list.

   Call <*Name*> is displayed.
6. Touch **OK** to start dialling.

Making a call from voice tag

The phone may have voice tag capability.

1. Press or press on the steering wheel controls twice to trigger the voice tag.

   Say name is displayed.
2. After the beep, say the name of the contact to be called.
3. The voice tag will be dialled.
4. When the call has ended, the previous source will be selected.

Transferring a call back to the phone

During a call you can transfer from the infotainment system back to the phone handset.

1. Touch **Transfer call**.

   The call is transferred to the phone handset.

   To transfer back to the infotainment system, touch **Transfer call** again.

Receiving a discrete phone call in map view (with navigation)

The ring tone is audible via the vehicle speakers.

Voice In is displayed in the Audio status bar.

1. Press on the steering wheel controls to accept the call.

Help system

General information

The help system provides help topics and information on features, which may assist with operation.

Activating/deactivating the help feature

1. Press ⓘ to open the **Help** tab.
2. To get help on:
   - Features, touch **Feature help**.
   - Operating buttons, touch **Button help**.
3. Touch **Close** to exit.

Help on features

Feature help topics are subdivided into main and sub topics.

The main topics are:

- Aux
- Bluetooth pairing
- Bluetooth phone
- Configuration
- Media
- Navigation
- Navi configuration
- Radio
- Radio configuration
- Status bar
- Traffic

Selecting help on features

1. Press ⓘ to open the **Help** tab.
2. Touch **Feature Help**.
3. Touch ▲ or ▼, or rotate **TUNE** to browse the main topic list.
4. Touch the main topic for information.
5. Touch ▲ or ▼, or rotate **TUNE** to browse the sub topic list.
6. Touch the sub topic for information.
7. When highlighted, touch ▼ or rotate **TUNE** clockwise to select the second page of the sub topic.
8. Touch **Back** to return to the previous screen.

Help on buttons

Access help topics on the button functions.

The button functions are:

- AUX
- BACK
- CONFIG
- EJECT
- FOLDER NEXT/PREV
- HELP
- LEFT ROTARY
- MAP
- MEDIA
- MUTE
- NAV
- PHONE
- POWER
- RADIO
- RIGHT ROTARY
- TRACK UP/DOWN

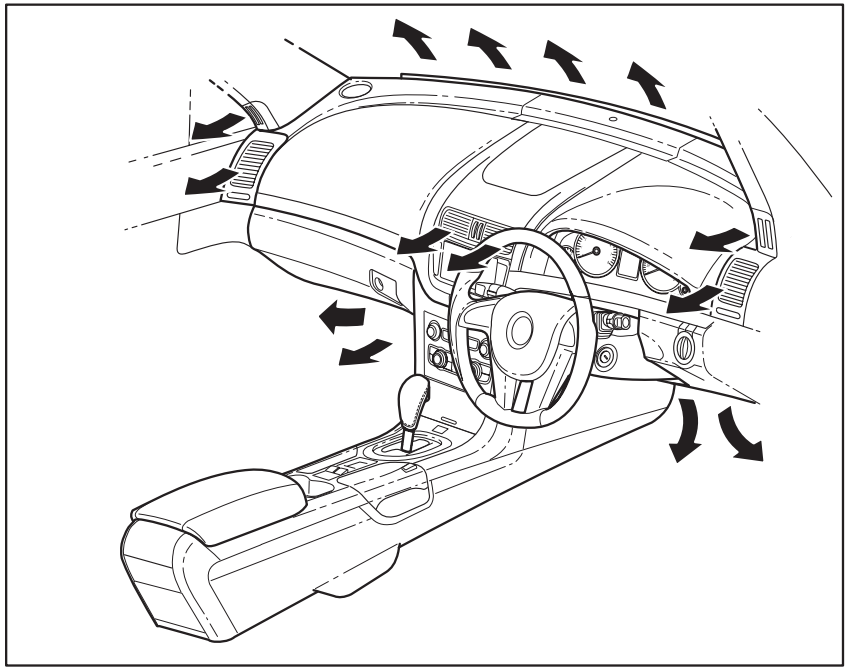
Selecting help on buttons

1. Press ⓘ to open the **Help** tab.
2. Touch **Button Help**.
3. Touch ▲ or ▼, or rotate **TUNE** to browse the button function list.
4. Touch the button function for information.
5. Touch **Back** to return to the previous screen.

Climate control

Heating and ventilation system...159
Air conditioning system.....160

Heating and ventilation system



Outside air is drawn into the vehicle through the opening between the bonnet and the windscreen, unless recirculation has been selected.

Keep the area clear of debris.

Vents

The face vents can be adjusted up or down and left or right to allow directional air flow.

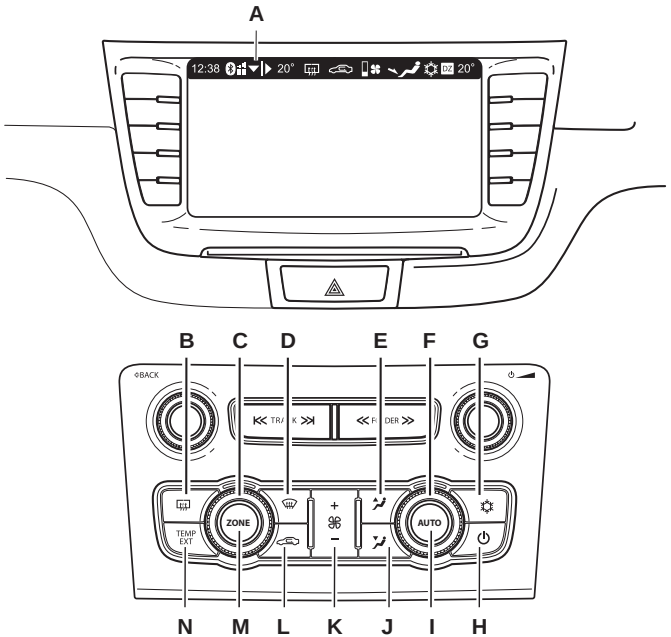
The vents have shut-off doors to adjust the air volume.

The demister and floor-level outlets are fixed. They direct air to the windscreen, side windows and feet.

Air conditioning system

The climate control panel is located in the centre of the dashboard.

Settings for the driver and passenger can be adjusted independently.



Controls

A. Display bar
B. Rear window demister
C. Temperature control: left side
D. Windscreen demister
E. Mode up
F. Temperature control: right side
G. Air conditioning
H. Off
I. Auto
J. Mode down
K. Fan speed
L. Recirculation
M. Zone
N. Exterior air temperature

Temperature controls

- Rotate controls (C) and (F) clockwise (warmer) or anticlockwise (cooler).
- The settings for each side appear on the display bar (A).
- Rotating the control past 30°C, will show **H** (hottest).

  Rotating the control past 17°C, will show **C** (coolest).
- Between 22°C and 24°C is recommended.

Single and dual zone

- Press **ZONE** (M) to select Single-Zone (SZ) mode or Dual-Zone (DZ) mode.
- **SZ** or **DZ** appear on the display.

Single-Zone (SZ) mode

All zones are set to the same temperature.

The temperature is shown on the display.

Adjust using the control (F).

Dual-Zone (DZ) mode

Dual-Zone mode allows different temperatures to be set for the left and right sides or to link them.

Adjust the passenger side by rotating control (C).

When linked, the passenger side temperature setting mirrors the driver side temperature setting.

To link, press and hold **AUTO** (I) for at least 3 seconds.

Note
Linking automatically occurs if the passenger and driver sides are set to the same temperature when the ignition is turned on.

Automatic operation

1. Turn the ignition on.
2. Press **AUTO** (I) if the icon is not already displayed.
3. Use the temperature controls (C) and (F) to adjust the temperature.
4. Allow the system to stabilise for a few minutes.
5. Adjust the angle of the air vents.

Note

The setting does not change when the ignition is turned off or on (except if extreme hot or cold is selected).

Fan

- Press **+** or **–** on ⌘ (K) to increase or decrease the fan speed.
- The fan speed appears on the display.

Note

- The climate control sets the fan speed automatically.
- When adjusting the fan speed, the system will revert to semi-automatic operation.

  An animation will appear on the display bar (A).
- When the engine is not running, fan speed is limited to conserve the battery.
- To return to automatic operation, press **AUTO** (I).

Mode

Press the mode buttons (E) and (J) to switch between the following positions:

- Face mode directs air to both dashboard and console vents.
- Bi-level mode directs approximately half the air to both dashboard and console vents and most of the remaining air to the floor vents.

  Cooler air is directed to the upper outlets and warmer air to the floor vents.
- Floor mode directs most of the air to the floor vents, some to the outer dashboard vents, windscreen and side window demist vents.
- Floor and windscreen demist (blend) mode directs air between the windscreen and floor vents, some to the outer dashboard vents and side window demist vents.

The settings appear on the display bar (A).

Note

- Manual selection of any mode will revert the system to semi-automatic operation.
- To return to automatic operation, press **AUTO** (I).

Auto

- Pressing **AUTO** (I) switches the system to automatic.
- **AUTO** appears on the display bar (A).

Note

- Use a minimum of manual adjustment.
- The **AUTO** icon on the display goes out when the system is operating manually.
- Allow the system to stabilise before changing settings.

Air conditioning

- Press (G) to switch the air conditioning on and off.
- appears on the display bar (A) when switched on.

  OFF appears on the display bar (A) when switched off.

Note

- When or or is selected, the air conditioning is automatically switched on.
- To conserve fuel, the air conditioning may be switched off in cold weather.

  Other climate control functions are maintained.
- Air conditioning removes moisture and heat from the air.
- Switch the air conditioning on for at least 5 to 10 minutes once every 2 weeks to lubricate the system, even in winter.
- Air conditioning cannot be turned off in demist mode.
- Air conditioning may switch off during heavy acceleration, towing or when there is abnormal system pressure.

Recirculation

- Press (L) to switch the air intake between recirculated air and outside air.
- appears on the display.

Note

- Recirculation reuses interior air so is not recommended for long periods of time.

  If left on, fresh air is let into the cabin periodically.
- Do not use recirculation if occupants are smoking.
- Recirculation cannot be activated in demist mode.

Pollution mode

- Pollution mode selects recirculation when the vehicle speed is less than 15 km/h to prevent exhaust fumes entering the interior in heavy, stop/start traffic.
- To switch on or off, press and hold for 4 seconds.
- **Pollution Mode ON** or **Pollution Mode OFF** appear on the display.

Windscreen demister

- Press (D) to demist the windscreen and side windows.
- Air conditioning is switched on automatically.

  Air conditioning cannot be switched off and recirculation mode cannot be switched on.
- appears on the display.
- Press (D) again to turn the demister off.

Rear window demister

- Press (B) to turn the rear demister on or off.
- appears on the display.
- The rear demister switches off automatically.

Outside temperature

- Press **TEMP EXT** (N) to display the outside temperature on the display bar (A).

  Pressing **TEMP EXT** does not stop the system operating automatically.
- Press **TEMP EXT** (N) again to return to the normal display.

Off

- Press (H) to switch the system off.
- Press any button to switch it back on.
- When the system is off, the rear window demister can still be switched on.

Adjust display bar size

- To minimise, touch to the right of within the display bar (A).

  Temperature and zone remain.
- To maximise, touch to the right of within the display bar (A).

Regular operation

Automatic

It is not necessary to set a cooler or hotter temperature than required to ensure fast cooling or heating.

Leave the system in automatic operation to:

- Turn the air conditioning on and off.
- Vary the temperature of the air entering the cabin.
- Switch between recirculate or fresh air.
- Vary the fan speed.
- Alter vent selection.

Starting

1. When cold, the system starts in mode with the fan off.
2. Warm air is then directed to the floor outlets.
3. Air is directed through selected vents.
4. Adjust vents manually.

Engine performance/ fuel economy

A small decrease in engine power and a slight increase in fuel consumption will be noticed when the air conditioning is in use.

At high speeds or heavy acceleration, the air conditioning may switch off momentarily.

Adjusting the temperature

When the climate control system has stabilised, adjust settings one degree at a time.

Quick cool down

When entering the vehicle on a hot day, open the windows for a short time to allow the hot air to escape, before operating the air conditioning.

Ignition keys

For vehicles equipped with personal identity keys, pressing sets the climate control to the last adjustments used for that key. See Personal identity keys on page 17.

Automatic transmission

If the vehicle is stopped for a long time in hot weather with the engine running and the air conditioning operating, move the shift lever to **N** or **P**.

Hissing

A slight hissing sound when the air conditioning switches off is normal.

Water

Water condensation can leave traces of clear water on the ground underneath the vehicle.

Unsealed roads (prevention of dust entry)

- When following another vehicle on unsealed roads and the dust is airborne, select recirculation (L).
- If the dust is not airborne select outside air and set the fan to high speed to help prevent dust entry.
- Ensure in both cases that the windows are closed.
- Do not use recirculation for long periods of time.

Sensors

The climate control uses three sensors to maintain temperatures:

- The sunlight sensor is located on top of the dashboard. See Instrument panel overview on page 57.

  It monitors solar radiation when operating in AUTO mode, adjusting temperature, fan speed and air delivery.

  Cooler air may be supplied to the side of the vehicle facing the sun.

  Recirculation mode will be activated as necessary.

  Do not cover the sensor.
- The outside temperature sensor is located in front of the radiator and relies on air moving across it.

  It can be affected by radiant heat when the vehicle is stationary.

  To prevent false temperature readings, the displayed temperature will not change until the vehicle speed is above 16 km/h for 5 minutes or vehicle speed is above 40 km/h for 2 and a half minutes.

  If the vehicle has been switched off for less than 3 hours, the temperature at start up will be recalled from previous operation.
- The in-car temperature sensor is located in the dashboard. See Instrument panel overview on page 57. It measures the temperature inside the vehicle.

  Do not cover the sensor.

Switching climate control off

If climate control is switched off:

- Background noises may still be heard.
- Recirculation and the rear window demister can still be switched on.

Cigarette smoke

Do not use recirculation if occupants are smoking.

Regular running

Switch air conditioning on for at least 5 to 10 minutes once every 2 weeks to lubricate the system, even in winter.

Pollen/dust filter

A passenger compartment air filter may be fitted to filter contaminants such as pollen and dust from entering the vehicle. This can be fitted by a Holden Dealer.

Driving and operating

Driving information.....167
Starting and operating 167
Automatic transmission 172
Manual transmission.....180
Brakes 182
Ride control systems 184
Fuel.....189
Towing 198
Conversions and add-ons.....202

Driving information

Before entering the vehicle

Check that windows, mirrors and lamps are clean.

Visually check tyre inflation. Check tyre pressures weekly.

Before driving off

1. Close and secure doors.
2. Position the seat for comfortable driving.
3. Adjust rear view mirrors.
4. Fasten seat belts.
5. Check that warning indicators illuminate when turning the ignition on. See Warning lights, gauges and indicators on page 63.

Starting and operating

New vehicle running-in

Use the following precautions to improve performance:

- Do not make full throttle starts.
- Avoid downshifting to brake or slow the vehicle.
- For the first 1,000 km:

  Do not drive at any one constant speed.

  Use moderate acceleration in lower gears.

  Avoid vehicle speeds above 110 km/h.
- Between the first 1,000 km and 5,000 km, heavy acceleration in lower gears may be used.

  Vehicle speeds above 110 km/h should be limited to five minutes per use.

- Avoid making hard stops for the first 350 km to avoid premature wear and early replacement of brakes.
- It is recommended that the new vehicle be driven for at least 1,500 km before towing. See Running-in when towing on page 201.

Rear axle run-in

If local statutory speed limits and road and traffic conditions permit driving the vehicle at its top speed, follow this additional run-in procedure.

Before driving the vehicle at its top speed for more than approximately five minutes, observe the following:

- During the first 1,000 km, use only moderate acceleration in lower gears and avoid vehicle speeds above 110 km/h.
- Heavy acceleration in lower gears may be used between 1,000 km and 5,000 km.
- Vehicle speeds over 110 km/h should be limited to five minutes per use.

Brakes

Do not let the vehicle run down hills, or coast with the engine off as the power assistance does not operate.

Ensure that nothing is under the brake pedal which could limit their use, such as poorly fitting floor mats.

Continuous or heavy use of brakes will shorten the life of the brake pads.

Power steering

The power steering fitted to the vehicle has been designed to reduce steering effort.

Do not turn and hold the steering wheel in the fully turned position when stationary.

If power steering is not working, due to the engine stalling for example, the vehicle can still be steered. Have the steering repaired as soon as possible by a Holden Dealer.

Mobile phones and CB radios

Use mobile phones and CB equipment that utilise an antenna fitted to the outside of the vehicle whenever possible.

If using mobile phones or CBs with an integrated antenna inside the vehicle, avoid using near the dashboard area, as some functions may be affected.

Loading the vehicle

Loading the vehicle changes handling when driving. See Axle loads on page 276.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Firmly secure in the load area.

⚠Warning

Portable gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported that a purpose-built carrying compartment be used. Ensure any transportation of gas cylinders complies with the applicable regulations.

Tyre grip

Tyre grip decreases when water, snow, ice, gravel or other materials are on the road. Adjust your driving to the road conditions:

- Reduce speeds during wet conditions.
- Replace tyres when tread wear indicators are visible. See Tread depth on page 242.
- Regularly check that tyres are properly inflated. See Wheels and tyres on page 241.

Water crossing

Before crossing water, switch off the air conditioning.

Crossing deep water can damage the engine:

- Avoid crossing water deeper than 175 mm.
- Limit vehicle speed to a walking pace.

To dry out the brakes:

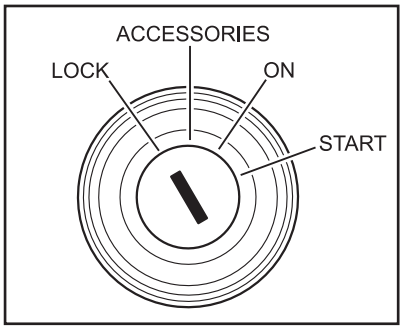
- Ensure there is a clear area ahead.
- Lightly apply the brakes.
- Maintain a slow forward speed until performance returns to normal.

Ignition positions

⚠Warning

Do not turn the engine off while the vehicle is moving as there will not be any power assist for brakes or steering.

Never remove the key while the vehicle is moving, as this will lock the steering.



LOCK: When the key is in the LOCK position, some electrical accessories and the engine are off.

The key can only be inserted and removed from the LOCK position.

The engine is automatically disabled shortly after removing the key from the ignition.

The steering wheel is automatically locked when the key is removed.

To release the steering lock, re-insert the key and turn it towards the front of the vehicle. If still locked, turn the steering wheel slightly to the right or left while turning the key towards the front of the vehicle.

ACCESSORIES: When the key is in the ACCESSORIES position, the audio system and wipers operate.

ON: When the key is in the ON position, the engine is ready to start and all electrical systems are active. Warning lamps will illuminate. See Warning lights, gauges and indicators on page 63.

Do not leave the switch in the ON position for a long time, unless the engine is running, otherwise the vehicle's battery will discharge.

START: Turn the key to the START position momentarily and then release.

The engine starts automatically.

The key returns to the ON position when released.

Note

If the vehicle stalls after 5 seconds, return the key to the LOCK position. Slowly rotate the key to the START position. If the security warning lamp flashes, contact a Holden Dealer.

Retained Accessory Power (RAP)

The power windows will operate when the key is in the ON or ACCESSORIES positions.

Once the ignition is turned to the LOCK position, the RAP allows the power windows to continue to operate for up to 10 minutes. If a door is opened during this time, they will be deactivated.

Note

The audio system will be deactivated only if the driver's door is opened.

Starting the engine

1. Apply the park brake firmly. Release it only after starting the engine and you are ready to drive off.
2. Automatic transmission: Move the shift lever to position **P** or **N**. The engine will not start if the shift lever is in any other position.

   Manual transmission: Push the clutch pedal to the floor, move the shift lever to the neutral position then start the engine. Release the clutch pedal slowly.
3. Turn the key to the START position momentarily and release it. The engine starts automatically. The key automatically returns to the ON position.

Notes

- Manual transmission: The clutch must be pushed to the floor while turning the key, or the vehicle cannot be started.
- Do not depress the accelerator pedal while starting the engine.
- Do not subject the engine to full throttle acceleration or high speeds until it has reached normal operating temperature. Premature engine wear or damage may result.

Parking

1. Apply the park brake.
2. Automatic transmission: Select position **P**.

   Manual transmission: If facing uphill or on flat ground, select 1st gear. If facing downhill, select reverse gear.
3. Shut the windows.
4. Turn the ignition off and remove the key.
5. Press the button on the key to lock both doors and to arm the alarm system. See Vehicle security on page 23.

Note
The engine fan may keep going for several minutes after the ignition has been turned off. This is normal.

⚠Warning

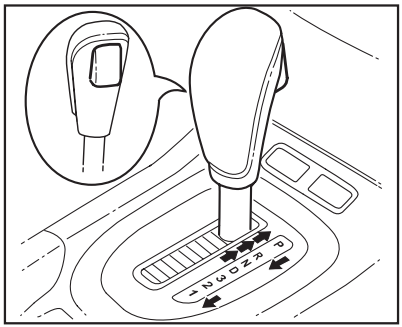
Be careful where you park or drive. As with any vehicle, do not park or operate the vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

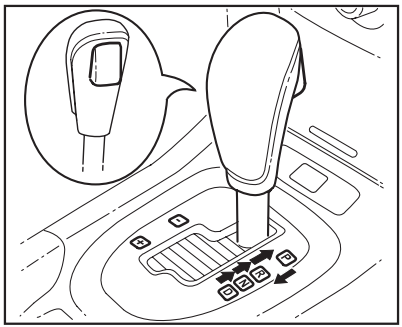
Exhaust gases are hazardous, especially if they concentrate in closed rooms.

Never leave the engine running in an enclosed space such as a closed garage or underground car park.

Automatic transmission

Shift lever positions

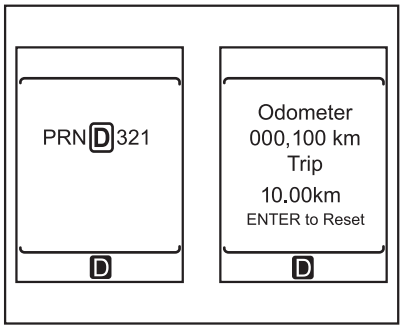




Press the select button on the front of the shift lever to move into any position.

4 speed transmission

Gear display



When the shift lever position is changed, an animation appears on the display.

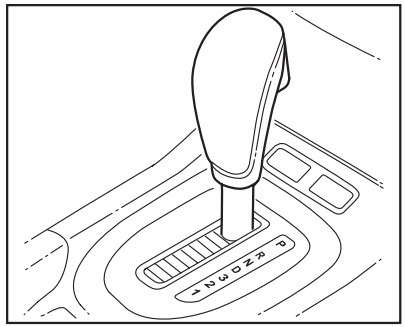
The selected gear is magnified and changes according to the shift lever movement.

The animation appears on the display for 2 seconds after the gear is selected.

The lever position indicated on the bottom of the display remains on, indicating the currently selected gear.

Note
If any warnings are active on the display, the animation will not be shown. Only the indication on the bottom of the display changes when the shift lever is moved.

Shift lever positions



The engine will not start unless the shift lever is in position **P** or **N**.

P: In park position, the wheels are locked. Apply the park brake before leaving the vehicle.

Caution

Selecting position **P** while the vehicle is still moving can cause damage to the transmission.

Do not press the accelerator pedal with the brakes on in any gear except position **P** or **N**. This will overheat the transmission.

R: Place in reverse gear only when the vehicle is stationary. The reverse lamps will illuminate.

N: In neutral the vehicle can be moved without the engine running, e.g. to be towed or pushed.

⚠Warning

To prevent the vehicle from moving when position **N** is selected, always apply the park brake, depress the foot brake or use suitable chocks to block the wheels.

Do not coast the vehicle in position **N** – this decreases your control and ability to accelerate quickly in an emergency.

D: Used for general driving. Use with sport shift mode when towing on the highway at speeds over 80 km/h.

3: Provides engine braking in 3rd gear. The transmission will only shift between 1st, 2nd and 3rd gears. Select with sport shift mode when towing at speeds under 80 km/h.

2: Provides engine braking in 2nd gear. Do not select at more than 120 km/h.

1: Provides engine braking in 1st gear. Use on a steep gradient, when a strong braking effect is needed.

Note
It is recommended that cruise control or sport shift mode be used for towing.

Caution

Do not use the accelerator pedal to hold the vehicle stationary on an uphill slope. Use the brakes.

Warm up mode

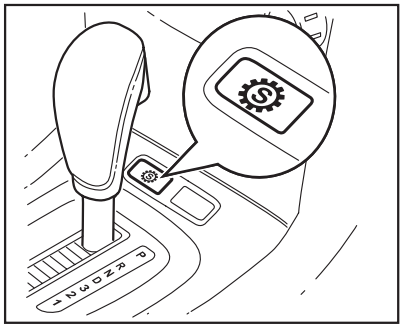
At temperatures of approximately 5°C or below, the transmission may shift up later than normal until the engine reaches operating temperature (approximately 5 minutes). This helps the engine to warm up quickly to improve heater performance.

Sport shift mode

Select sport shift mode where maximum engine power and transmission responsiveness is required.

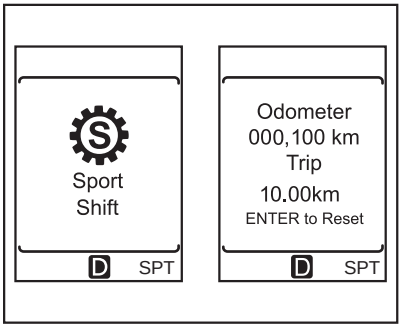
When operated in sport shift mode, the transmission will delay upshifts and allow earlier downshifts.

The Ⓢ button is located in front of the shift lever.



1. To activate sport shift mode, press Ⓢ.
2. To deactivate sport shift mode, press Ⓢ again.

When the ignition is turned off then on again, sport shift mode will be deactivated and normal shift mode will be selected.

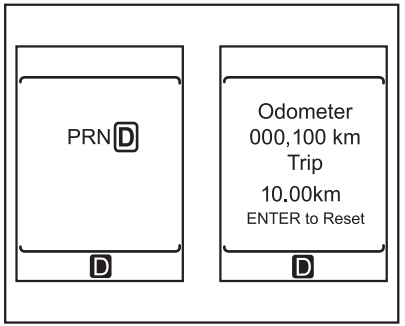


The **Sport Shift** animation appears on the display for 2 seconds.

On the bottom of the display, **SPT** appears as long as sport shift mode is selected.

6 speed transmission

Gear display



When the shift lever position is changed, an animation appears on the display.

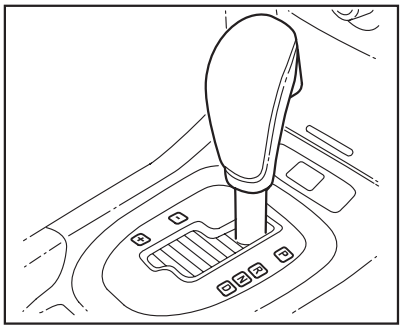
The selected gear is magnified and changes according to the shift lever movement.

The animation appears on the display for 2 seconds after the gear is selected.

The lever position indicated on the bottom of the display remains on, indicating the currently selected gear.

Note
If any warnings are active on the display, the animation will not be shown. Only the indication on the bottom of the display changes when the shift lever is moved. See Active Select (A/S) mode on page 179.

Shift lever positions



The engine will not start unless the shift lever is in position **P** or **N**.

P: In park position, the wheels are locked. Apply the park brake before leaving the vehicle.

Caution

Selecting position **P** while the vehicle is still moving can cause damage to the transmission.

Do not press the accelerator pedal with the brakes on in any gear except position **P** or **N**. This will overheat the transmission.

R: Place in reverse gear only when the vehicle is stationary. The reverse lamps will illuminate.

N: In neutral the vehicle can be moved without the engine running, e.g. to be towed or pushed.

⚠Warning

To prevent the vehicle from moving when position **N** is selected, always apply the park brake, depress the foot brake or use suitable chocks to block the wheels.

Do not coast the vehicle in position **N** – this decreases your control and ability to accelerate quickly in an emergency.

D: Used for general driving. The transmission automatically selects the appropriate gear according to the current load and driving conditions.

+/–: While in sport shift mode, move the shift lever to the **+** or **–** position to enable A/S mode.

To shift up a gear, briefly pull the lever rearwards (+) and release it. To shift down a gear, briefly push the lever forwards (–) and release it. See Active Select (A/S) mode on page 179.

Note

- It is recommended that cruise control or sport shift mode be used for towing.
- A/S mode may also be used under light load conditions.
- A small increase in engine speed may occur during some downshifts.

Caution
Do not use the accelerator pedal to hold the vehicle stationary on an uphill slope. Use the brakes.

Powertrain braking

When driving on steep descents in sport shift mode, where frequent braking is required, the transmission will downshift a gear to help hold vehicle speed and reduce brake wear.

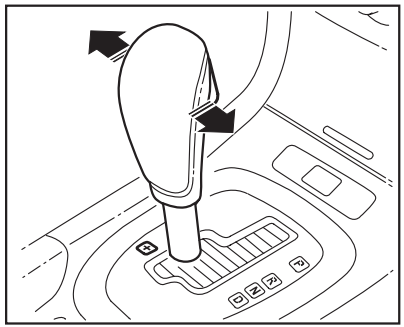
If the brake is continuously pressed, the transmission will downshift until 3rd gear is reached.

If the brake is released for some time, the transmission will upshift a gear.

If the road levels out and the accelerator pedal is pressed, the transmission will upshift until the appropriate gear is reached.

A/S mode can be switched on to override this feature.

Sport shift mode



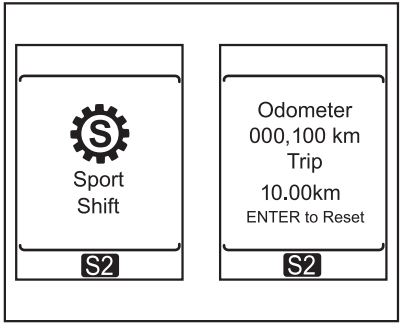
Sport shift mode can be selected where maximum engine power and transmission responsiveness is required.

When operated in sport shift mode, the transmission will delay upshifts and allow earlier downshifts.

To activate sport shift mode:

1. Move the shift lever to position **D**.
2. Push the shift lever to the left.

   Do not move the shift lever to **+** or **–**, otherwise A/S mode will be enabled.
3. To return to normal shift mode, move the shift lever right, to position **D**.



The **Sport Shift** animation appears on the display for 2 seconds.

On the bottom of the display, **S** and the currently selected gear appears as long as sport shift mode is selected.

Performance Mode Lift Foot (PMLF)

PMLF is a performance feature with sport shift mode.

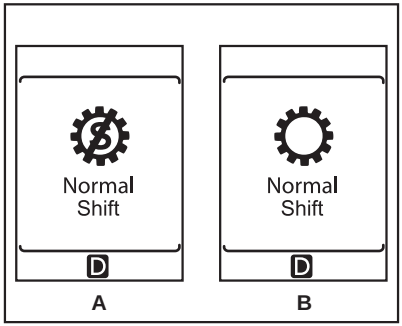
PMLF allows the transmission to hold the current gear instead of upshifting when the throttle is lifted.

It will also enable shifts to a lower gear at higher vehicle speeds and delay upshifts to a higher gear for sportier vehicle performance.

Normal shift mode

Normal shift mode is recommended for normal or freeway driving, as it provides optimum fuel economy.

When the ignition is turned on, normal shift mode is selected.

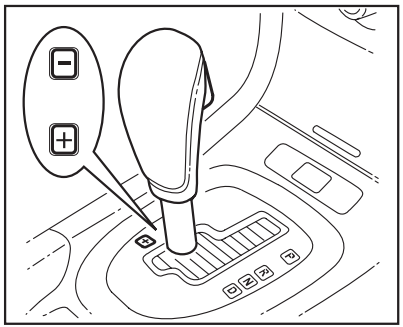


The **Normal Shift** animation appears on the display, 4 speed (A) and 6 speed (B) for 2 seconds.

Active Select (A/S) mode

A/S mode (6 speed only) allows gears to be selected manually, so that the vehicle can be driven in a sport oriented manner.

It can also provide engine-braking by selecting the appropriate lower gear on a steep downhill grade.



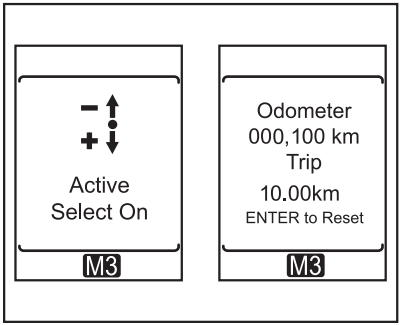
To enable A/S mode, move the shift lever to position **D** then push the lever to the left.

To shift up a gear, briefly pull the lever rearwards (**+**) and release it.

To shift down a gear, briefly push the lever forwards (**–**) and release it.

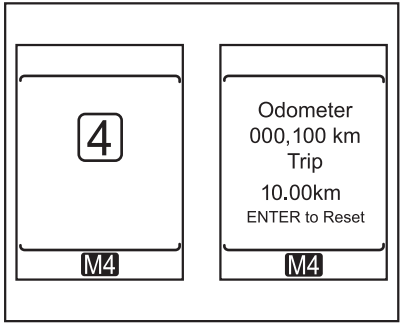
After changing the gear and releasing the shift lever, it returns to the centre on the left.

Do not hold the shift lever in the + or – position.



The **Active Select On** animation appears on the display for 2 seconds.

On the bottom of the display, **M** and the currently selected gear appears as long as A/S mode is selected.



When shifting up or down, the selected gear (**1**, **2**, **3**, **4**, **5**, or **6**) is also animated on the display.

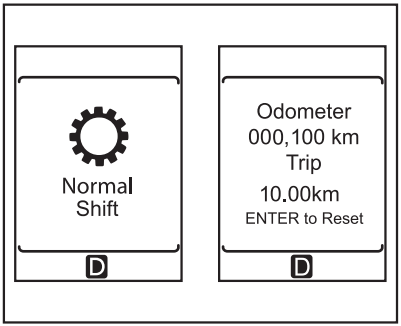
The animation appears on the display for 2 seconds after the gear is selected.

Note

- The transmission will shift to a selected gear only if the engine speed is within a suitable range.

  If not suitable, **Shift Denied** will be displayed and the transmission will not shift gears.
- If the engine speed becomes too low for the currently selected gear, the transmission will automatically shift down, even though A/S mode is still selected.
- While in A/S mode, 2nd or 3rd gear starts (V8) or 2nd gear starts (V6) can be selected from a standing start. This is useful for gentle acceleration on slippery surfaces.

To disable A/S mode and return to automatic mode, push the shift lever to the right, position **D**.

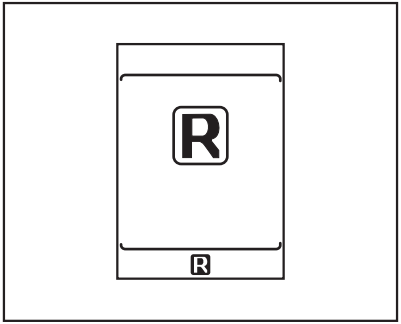


The **Normal Shift** animation appears on the display for 2 seconds.

On the bottom of the display the currently selected gear appears.

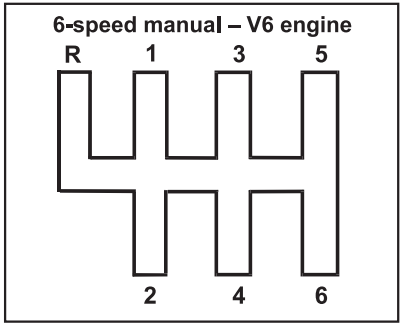
Manual transmission

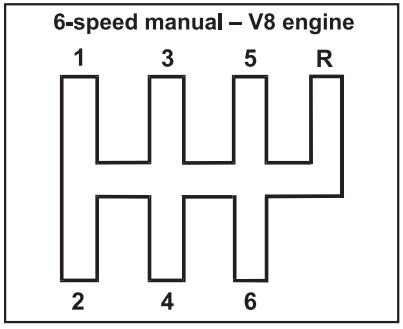
Gear display



When **R** is selected, an animation appears on the display, and a chime sounds.

Shift pattern





V6 and V8 engines equipped with manual transmissions have six forward gears and a reverse gear, shown on top of the shift lever.

Manual operating notes

- When shifting from one gear to another, push the clutch pedal to the floor.
- Do not engage reverse gear while the vehicle is still moving.
- To select **R**, move the shift lever sideways against spring pressure to engage reverse gear.
- Pause between pressing the clutch pedal and moving into reverse gear.
- Whenever reverse gear is selected with the ignition on, the reverse lamps illuminate.
- For vehicles fitted with a manual transmission; when on level roads, in an unladen condition, it is permissible to drive off in 2nd gear, in the interest of fuel economy.
- Do not drive with your foot resting on the clutch pedal.
- When stopped on an incline, do not hold the vehicle stationary using the clutch. Use the park brake or foot brake.
- Shift to a lower gear when climbing steep grades, before the engine starts to labour.
- Shift to a lower gear before descending steep grades.
- Do not over rev the engine when shifting to a lower gear.
- V6, 5th gear provides direct drive, whereas 6th gear provides overdrive.
- V8, 4th gear provides direct drive, whereas 5th and 6th gears provide overdrive.

Brakes

Antilock Brake System (ABS)

The ABS:

- Continuously monitors the vehicle's braking system preventing the wheels from locking up.
- Allows maximum braking effort while full steering control is retained, even in the event of panic braking.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. You should always adjust the vehicle's speed to suit road and traffic conditions. Always maintain an adequate distance to the vehicle in front of you.

Operation

ABS operation is noticeable by pulsing of the brake pedal and the noise of the regulation process.

Keep the brake pedal fully pressed throughout the braking process, without pumping it.

Caution

When the ignition is turned on, the (ABS) warning lamp briefly illuminates. This self-check may be audible.

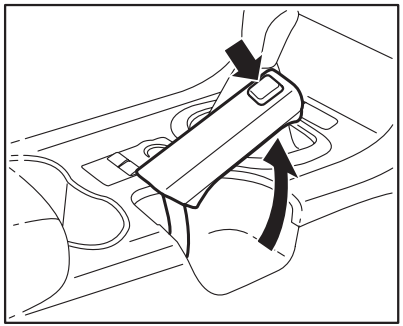
If the (ABS) warning lamp (ABS off) on the instrument panel display does not extinguish or illuminates when driving, a malfunction has occurred. The **ABS Fault** animation will illuminate on the display.

Note The vehicle's brake system remains operational, but without ABS assistance. Have a Holden Dealer check the system as soon as possible.

The **ABS Fault** animation will be displayed until the **TRIP** or the ENTER button are pressed.

The (ABS) warning lamp will remain illuminated until the problem is repaired.

Park brake



The park brake lever is located between the seats.

Applying the park brake

Pull the lever straight up, without pressing the release button.

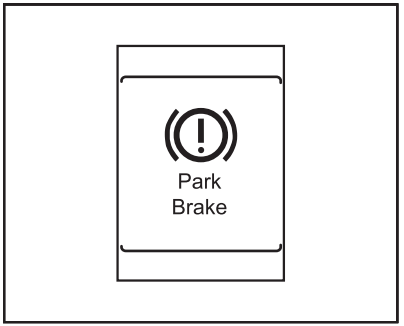
When the ignition is turned on and the park brake is applied, the park brake warning lamp (!) appears on the display.

Releasing the park brake

1. Pull the lever slightly upwards.
2. Push in the release button on the top of the lever and lower the lever all the way down.

⚠Warning

Never drive the vehicle with the park brake applied.



If attempting to drive off without releasing the park brake, a warning chime sounds and the **Park Brake** animation appears on the display.

The animation remains illuminated until one of the following occur:

- The park brake is released.
- The vehicle is stationary.
- **TRIP** is pressed on the steering wheel.

Ride control systems

Electronic Stability Program (ESP®)

The ESP®:

- Is an advanced feature that works in conjunction with the vehicle's ABS and includes the Traction Control System (TCS).
- Improves driving stability in any driving situation.
- Assists in maintaining vehicle stability when the vehicle's grip level is exceeded such as a sudden lane change, slippery or unexpected road conditions.
- Alters engine power and/or braking on specific wheels, improving the vehicle's steering control and power delivery, on wet or slippery roads, particularly on snow and ice.
- ESP® is a registered trademark of Daimler Chrysler AG.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

Activation

While the ESP® is maintaining vehicle stability, the **Stability Ctrl Assistance** animation appears on the display.

ESP CTRL illuminates at the bottom of the display as long as the assistance is maintained.

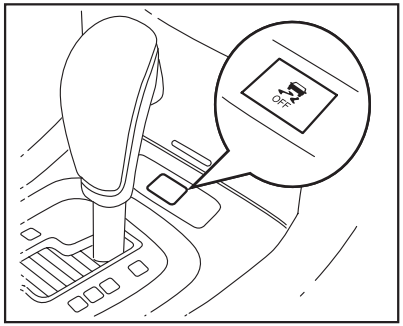
The animation will be displayed until **TRIP** on the steering wheel is pressed.

Switching ESP® on and off

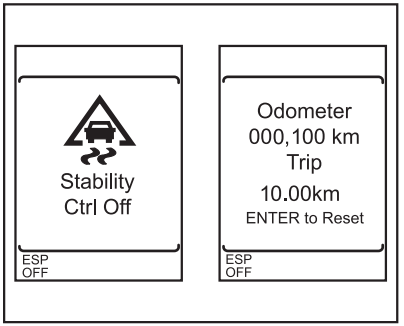
In certain circumstances, it may be helpful to disable the ESP®, e.g. on steep gravel inclines, or if the vehicle is bogged. It may be possible to get more traction from a slightly spinning wheel.

Note

Switch the ESP® off when snow chains are fitted, to maintain normal driving operation.

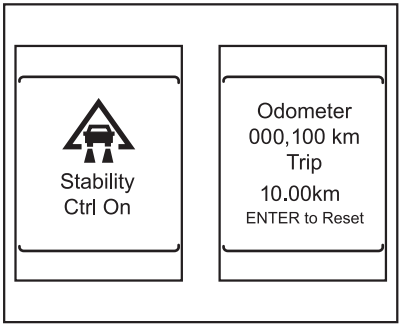


The ESP® is automatically switched on each time the engine is started.



To switch off, press OFF:

- The **Stability Ctrl Off** animation appears on the display for 2 seconds.
- **ESP OFF** remains at the bottom of the display as long as the ESP® is switched off.

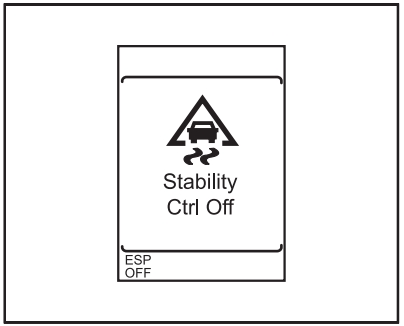


To switch on, press OFF:

- The **Stability Ctrl On** animation appears on the display for 2 seconds.
- **ESP OFF** disappears.

Malfunction indication

If pressing OFF and the animations do not display as described, a malfunction has occurred. The system will not work. Contact a Holden Dealer.



If the **Stability Ctrl Off** animation is shown, press **TRIP** on the steering wheel.

ESP OFF appears at the bottom of the display until the problem is repaired.

Electronic Brake Assist (EBA)

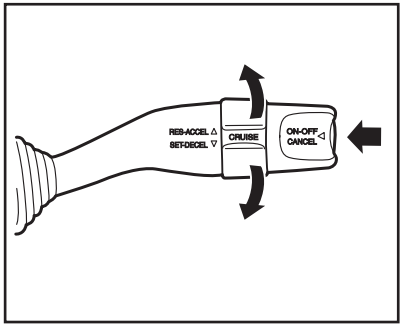
The EBA:

- Is incorporated into the ESP® system and detects rapid braking.
- Provides maximum braking efficiency as long as the brake pedal is depressed.
- Initiates ABS earlier, shortening the stopping distance required.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions. Always maintain an adequate distance to the vehicle in front of you.

Cruise control

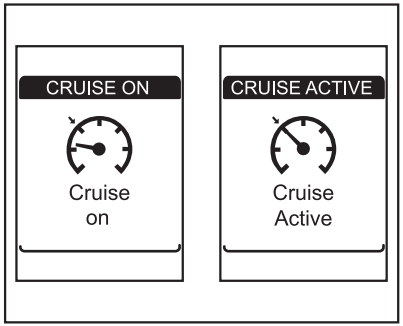


The cruise control:

- Maintains the vehicle's speed without pressure on the accelerator pedal.
- Will only operate at speeds above 38 km/h.
- Lever is located on the right side of the steering column.

Setting a speed

1. Turn the ignition on.



2. Press the **ON-OFF/CANCEL** switch at the end of the lever.

   The **CRUISE ON** animation appears on the display.
3. When travelling at the desired speed, rotate the collar down to the **SET-DECEL** position.

   The **CRUISE ACTIVE** animation appears on the display.
4. Release both the accelerator pedal and the collar.

After a few seconds, the animation reverts to the original trip computer display.

CRUISE ON or **CRUISE ACTIVE** appears at the top of the display.

Adjusting the set speed

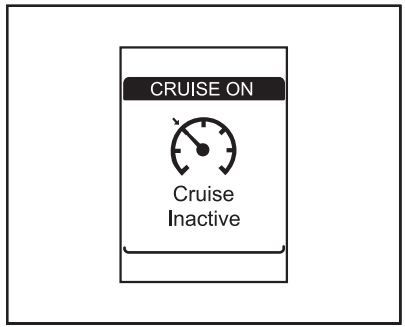
To reduce the set speed, rotate the collar down to the **SET-DECEL** position.

To increase the set speed, rotate the collar up to the **RES-ACCEL** position.

After releasing it, the new speed will be maintained.

To change the speed in small increments, momentarily rotate the collar.

Pausing the cruise control

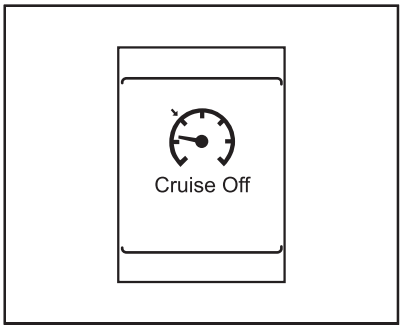


1. Press the brake pedal or the clutch pedal (manual transmission) or press the **ON-OFF/CANCEL** switch once. Cruise control deactivates.

   The **Cruise Inactive** animation appears on the display but the speed is retained in memory.
2. To regain the stored speed, momentarily rotate the collar to the **RES-ACCEL** position.

   Holding the **RES-ACCEL** position will cause the vehicle to accelerate.

Turning the cruise control off



Press the **ON-OFF/CANCEL** switch twice.

The **Cruise Off** animation appears on the display.

Notes about cruise control

- Pressing the **ON-OFF/CANCEL** switch once pauses the cruise control but keeps the speed in memory.
- A second press turns the system off and removes the speed memory.
- A third press turns the system back on to ready, without any speed memory.
- Turning the ignition off deactivates cruise control and clears the memory.

⚠Warning

Do not use the cruise control when road or driving conditions require varying speeds. A constant speed is not practical in heavy or varying traffic or on winding, slippery or rough roads.

Remember that when **CRUISE ACTIVE** is displayed, the cruise control is maintaining the vehicle's speed. Taking your foot off the accelerator pedal does not reduce the speed. To deactivate the cruise control, either press the brake pedal, press the clutch pedal (manual transmission) or push the **ON-OFF/CANCEL** switch.

The cruise control does not apply the vehicle's brakes. The vehicle may gain speed when going down steep hills.

When climbing steep hills (particularly when towing), the vehicle may lose speed. In this case, use the accelerator pedal. Release the accelerator pedal when the speed returns to the set speed.

The cruise control is cancelled if the Electronic Stability Program (ESP®) becomes active, indicated by the **Stability Ctrl Assistance** animated warning on the instrument panel display.

Fuel

⚠Danger

EXHAUST WARNING – CARBON MONOXIDE POISONING

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

Gases could be inhaled if the exhaust system on your vehicle is faulty.

To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:

- Each time the vehicle is serviced.
- Whenever a change is noticed in the sound of the exhaust system.
- Whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to a Holden Dealer if you think the vehicle needs inspecting for any of the above reasons.

Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running. Do not run the engine in an enclosed area (such as the garage) any longer than is needed to move the vehicle.

⚠Danger

FUEL

Fuel is extremely flammable and highly explosive.

Always switch off the engine of the vehicle and any mobile phones when refuelling.

Do not smoke or allow open flames or sparks near the vehicle when refuelling.

If fuel fumes are smelt while driving, the cause should be found and corrected without delay by a Holden Dealer.

Caution

FUEL ADDITIVES

Various additives are used in the formulation of good quality fuel and the use of supplementary additives in fuel is not required unless specified by Holden. Under no circumstances should fuel containing the manganese additive known as MMT (methyl cyclopentadienyl manganese tricarbonyl) be used, as this additive is known to cause contamination of catalytic converters, spark plugs and the malfunction of On-Board-Diagnostic (OBD) systems. The use of fuel additives that are not recommended by Holden may affect your New Vehicle Warranty to the extent that Holden considers that the additives affect the specifications and quality of the vehicle.

Caution

USE OF FUEL CONTAINING ETHANOL

When purchasing such fuel, we recommend that the vehicle be operated on fuel containing no more than:

3.0L V6 petrol = 85% ethanol

3.6L V6 petrol = 10% ethanol

3.6L V6 dual fuel = 10% ethanol

6.0L V8 petrol = 85% ethanol

Under no circumstances should fuel containing more than these percentages of ethanol be used. Use of such fuels may result in engine malfunction, starting and operating difficulties and materials degradation. These adverse effects could result in permanent damage to the vehicle and personal injury. It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.

The use of fuel containing more than these percentages of ethanol may also affect your New Vehicle Warranty to the extent that Holden considers that the fuel affects the specifications and quality of your vehicle.

If the outside temperature range is between –18°C and 0°C, the engine may take longer to start.

The use of any fuel, other than the fuel specified on the following page, may seriously damage the vehicle and may void the warranty. Only clean fuel of good quality should be used.

Fuel type

Use unleaded petrol of regular 91 Research Octane Number (RON) rating or higher.

Use of Premium unleaded petrol (95 RON or higher) may provide a small improvement in performance and fuel economy.

Refuelling

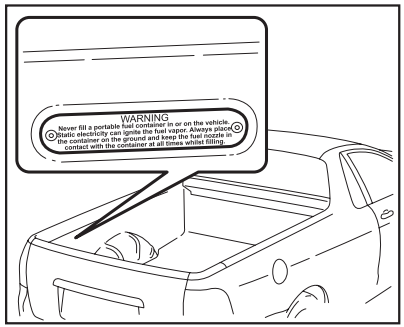
Always fill the fuel tank at the intermediate or fast fill rate. Do not add any more fuel after the fuel filler first clicks off or fuel blows back. This allows room for the fuel to expand inside the tank.

Only trickle-fill fuel tanks when the vehicle is to be driven for more than 50 km immediately after the tank is filled. However, this is not recommended on days over 30°C.

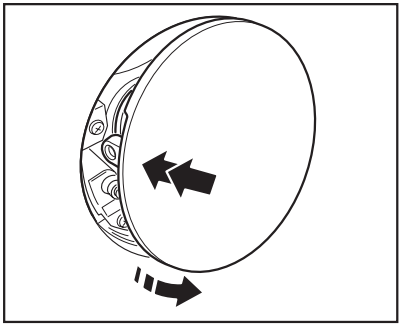
Wipe off any overflowing fuel immediately from the vehicle. Replace the fuel cap and close the fuel opening then spray or splash with water.

⚠Warning

Never fill a portable fuel container in or on the vehicle. Static electricity can ignite the fuel vapor. Always place the container on the ground and keep the fuel nozzle in contact with the container at all times while filling, as indicated on the warning plate on the inside of the load area.


WARNING
Never fill a portable fuel container in or on the vehicle.
Static electricity can ignite the fuel vapor. Always place the container on the ground and keep the fuel nozzle in contact with the container at all times whilst filling

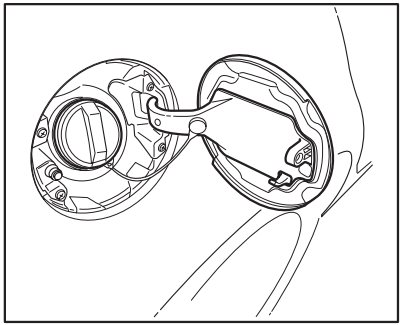
Fuel filler flap



To open the fuel filler flap:

1. Unlock the vehicle.
2. Push on the rear edge of the fuel filler flap located on the right side of the vehicle.
3. To close, push on the fuel filler flap until it clicks into place.

Fuel cap



The fuel cap, under the fuel filler flap, is a ratchet type cap that is tethered to the vehicle.

1. To open, rotate the cap anticlockwise.
2. After refilling, tighten the cap by rotating clockwise until a clicking noise is heard.
3. Close the fuel filler flap.

Tank capacity

See Capacities on page 277.

LPG

Dual fuel LPG

The vehicle may have an LPG tank.

Holden approved LPG system emergency procedures:

⚠Warning

LPG is heavier than air and if not dispersed tends to collect in low-lying areas.

Accident or fire

Call the emergency fire services to the scene and keep people away from the vehicle.

While filling

Ensure that there is no gas leakage. If a leak is detected while filling the vehicle stop filling the vehicle, notify the filling station operator of a potential problem with the pump. If the odour still persists when disconnected, carry out the following emergency procedure steps. Select petrol operation with the fuel selector switch and take the vehicle to nearest authorised IMPCO® LPG repairer or a Holden Dealer for advice.

Note If frost is present do not touch the area until the frost has dissipated.

Suspected gas leak

Carry out the emergency procedure Steps 1 through 14. Once the steps have been followed and the odour is no longer present, select petrol operation with the fuel selector switch and take the vehicle to the nearest authorised IMPCO® LPG repairer or a Holden Dealer for advice.

Manual service valve

⚠Warning

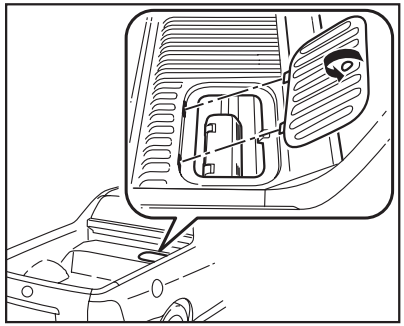
Do not mount any permanent fixtures over the access hatch as access must be provided at all times.

Avoid loading cargo over the access hatch.

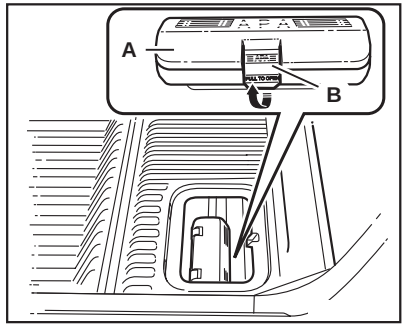
LPG has an odour that enables any leaks in the vehicle's LPG system to be detected.

If this odour is detected in or around the vehicle or in the event of an accident, fire or other abnormal circumstance:

1. Turn the ignition off.

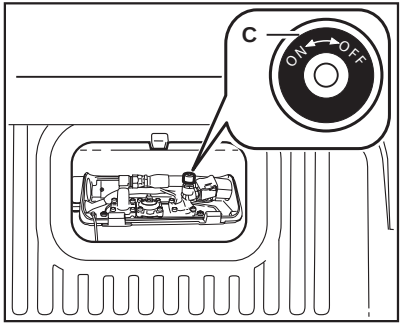


2. Locate the LPG tank access hatch in the load area.
3. Rotate the knob clockwise and remove the hatch.

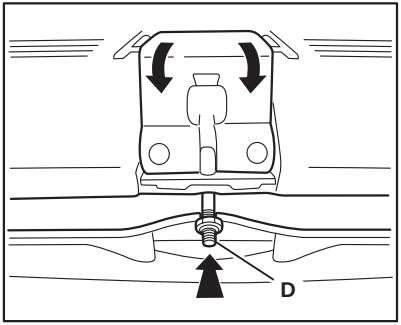


4. Pull the latch (B) to the upright position.
5. Open the valve box cover (A).
6. Lift the valve box cover up until it disengages from the tank.

Note
The valve box cover is tethered to the LPG tank.



7. Rotate the service valve (C) on the LPG tank clockwise to the **OFF** position.
8. Close the valve box cover.
9. Engage the hinge of the valve box cover.



10. With the latch (B) in the upright position, engage the pin (D) in the slot.
11. Push the latch (B) to the locked position.

    The vehicle will now run on petrol.

To close the access hatch.

12. Position the two tabs on the cover into the holes at the rearward edge.
13. Push the cover into place until it latches securely.
14. Contact the nearest authorised IMPCO® LPG repairer or a Holden Dealer for advice.

Introduction

The Holden Dual Fuel system will maximise the vehicle's performance in both fuel modes while minimising exhaust emissions and retaining vehicle reliability and performance.

It is important to understand that the engine in your Holden Dual Fuel vehicle will always start on petrol and if LPG is selected on the dual fuel control switch, the vehicle will automatically transfer over to LPG when the engine has warmed up sufficiently.

The Holden Dual Fuel system has been designed to comply with the relevant Australian Standard.

It is recommended that you advise your insurance company that your new vehicle operates on both petrol and LPG as failure to do so may invalidate your insurance policy.

Your vehicle is required to display the LPG decal on both the front and rear number plates.

Vehicle storage

If the vehicle is to be stored for a prolonged period, rotate the manual service valve (C) to the **OFF** position, located on the LPG cylinder. See Manual service valve on page 193.

New engine run-in procedure

It is recommended that the vehicle be run in on petrol for 500 km before running the vehicle on LPG.

Starting the engine

There are no special requirements for starting the dual fuel engine with either fuel selected.

LPG refuelling

⚠Warning

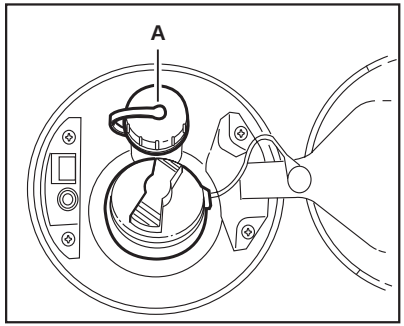
Observe the filling instructions and warnings displayed at the filling station.

Ensure there are no flames or sparks in the vicinity of the vehicle.

Note

LPG or petrol may be added, regardless of the fuel selected.

1. Turn the engine off.



2. Remove the LPG filler cap (A) by rotating anticlockwise.
3. Connect the LPG filler nozzle, squeeze and hold the trigger.
4. Release the trigger when the bowser automatically shuts off.

Note

- A small discharge of gas from the nozzle is normal.
- The AFL (Automatic Fill Limiter) shuts off the LPG flow when the LPG cylinder is 80% full: this is to allow for liquid expansion.

⚠Warning

Do not continue trying to add more LPG once the bowser automatically shuts off.

5. Disconnect the LPG filler nozzle.
6. Screw the LPG filler cap back on.

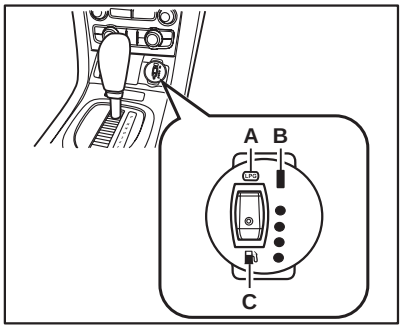
Tank capacity

See Capacities on page 277.

Fuel selection

Changing fuels and starting

The fuel selector switch is located forward of the shift lever.



The switch has two positions and a fuel operation indicator lamp (B).

The lamp colours are as follows:

Red Petrol operation.

Amber Transition state, currently transferring between fuels.

Green LPG operation.

Petrol operation

When the switch is in the petrol position (C), the engine will start and run on petrol.

LPG operation

When the switch is in the LPG position (A), the engine will start and run on petrol before transferring to LPG.

Note

- When switching from petrol to LPG, there is a time delay of about 5 seconds.
- Under high load conditions a vehicle operating on LPG will automatically change to petrol.
- When the system is out of LPG it will automatically change to petrol operation.
- To stop the switch beeping, change the fuel selection switch to petrol or refill the LPG tank.
- Holden recommends the petrol tank have at least a quarter of a tank of petrol at all times.

Default LPG operation

Default LPG is available to customers as an option when purchasing the LPG system and cannot be disabled. This option encourages driving on LPG.

Switching between fuels

To select petrol operation:

1. Press and hold the switch in the petrol position for more than 1 second.
2. The lamp will illuminate red.

Note

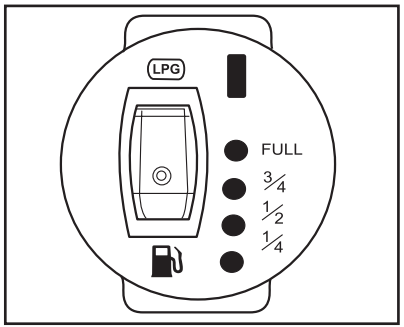
- When manually switching to petrol, switching to LPG will deactivate the short beep cycle.
- If the vehicle is turned off while in petrol mode, the system will automatically return to LPG when the vehicle is started.

- When the system is out of LPG, it will automatically change to petrol operation.
- When the system is out of LPG, to stop the beeping, refill the LPG tank.

To select LPG operation:

1. Press and hold the switch in the LPG position for more than 1 second.
2. The lamp will illuminate green.

LPG fuel gauge



The four lights in the fuel selector switch indicate fuel level as shown.

If one light flashes, the vehicle is operating on LPG reserve.

If one light flashes and the beeper sounds, the vehicle is out of LPG.

Note

- If all four lights are flashing, the LPG tank has been over filled. The lights will stop flashing once normal tank level is reached.
- When the system is out of LPG, it will automatically change back to petrol operation.
- For vehicles fitted with the default LPG feature, the system will continue to beep until the vehicle is refuelled with LPG.
- Check the manual service valve located on the LPG tank to ensure this is not closed. See LPG on page 192.
- Under high load conditions a vehicle operating on LPG will automatically change to petrol. The system will return to LPG when ready.

⚠Warning

Operating the vehicle with no petrol in the fuel tank may cause the vehicle to stall unrecoverably under high RPM/load conditions and possibly cause damage to the petrol fuel pump.

If the vehicle runs out of petrol it will not start, eliminating the ability to change over to LPG operation.

Towing

Trailer towing

The word trailer is used throughout this section and includes all types of towed vehicles, such as caravans, boat trailers or any other special purpose trailer.

Maximum towing capacities (kg) – braked trailer

Engine	V6		V8	
Transmission	**Manual**	**Automatic**	**Manual**	**Automatic**
Ute	1600	1600	1600	1600
Ute with LPG	-	1600	-	-

Note The maximum unbraked towing capacity for all vehicles is 750 kg.

Towing

Handling, durability and economy may be affected by towing a trailer.

For recommended and mandatory towing equipment, see Towing equipment on page 200.

A Holden Dealer will assist with supply and installation of towing equipment.

Overloading

Never exceed the loads given for the towing equipment fitted to the vehicle.

All mandatory equipment must be fitted, otherwise you may void the New Vehicle Warranty, to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of the vehicle. See Towing and loading equipment on page 200.

⚠Warning

Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of such equipment may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended equipment affects the specifications or quality of your Holden vehicle. It is inadvisable to mix and match different brands of towing equipment, as equipment is usually designed as an integrated package.

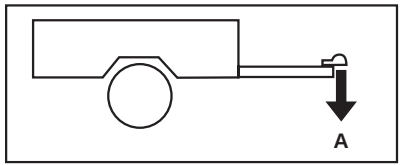
Manual transmission

When towing, do not exceed 100 km/h. Local laws may require a lower maximum speed.

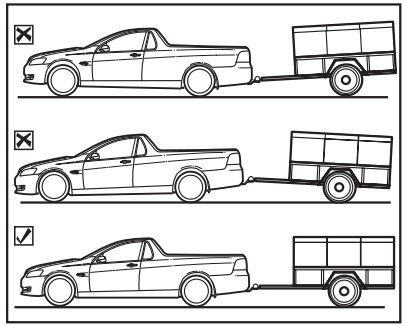
Automatic transmission

For the recommended automatic shift modes to use when towing, see Automatic transmission on pages 172 and 175.

Trailer recommendations



A trailer hitched to a vehicle places a weight on the tow bar. This weight is called the tow bar ball weight or tow ball load (A).



The tow ball load should be between 5 % and 10 % of the loaded trailer weight. Adjust by moving items forwards or backwards within the trailer, to change the balance.

For heavy trailers with more than one axle, the tow ball load should be in the range of 5 % - 10 % of the loaded trailer mass.

If the tow ball load is too light or too heavy, the steering and handling of the vehicle may be affected.

The maximum tow ball load must not exceed 160 kg.

Axle loads must not be exceeded when the tow ball load is included. See Axle loads on page 276.

If maximum axle loads are exceeded, transfer weight from the rear of the vehicle onto the trailer.

Ensure the weight of the packed trailer is not greater than the towing capacity of the Holden approved tow bar package fitted to the vehicle.

Park Assist (PA)

PA is available as an accessory.

The system will automatically deactivate when a trailer lighting plug is connected to the vehicle.

It will automatically activate again when the plug is removed.

Towing and loading equipment

Tow load	Mandatory equipment	Recommended equipment
Up to 750 kg	Holden 1,600 kg rated tow bar	
	Holden trailer wiring harness	
Between 751 kg and 1,600 kg	Holden 1,600 kg rated tow bar	Load distribution hitch
	Holden trailer wiring harness	
	Brakes on the trailer	

Load distribution hitch

The vehicle may have a load distribution hitch.

A load distribution hitch transfers load to the vehicle's front wheels aiding brake performance. This also enables more load to be carried in the vehicle without exceeding the rear axle load limit.

⚠Warning

At no time may the total front or rear axle load exceed the maximums specified, see page 276.

Towing precautions

- When heavily loading the vehicle or when towing, inflate tyres to the maximum recommended pressure. See Tyre placard on page 241.
- Ensure that a load distribution hitch is correctly distributing the tow ball load.
- Tighten the tow ball retaining nut to 140 Nm (Newton metres) and check the torque frequently.
- Vehicles handle differently when towing. Take a couple of short distance trips with the trailer before taking a long trip.

- Have the vehicle and trailer correctly maintained and serviced, with particular attention given to the brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- Use an extended-arm mirror on both sides of the vehicle if necessary.
- Headlamps may need re-aiming after the loaded trailer has been hitched, particularly if a load distribution hitch is not used.
- Use a lower gear and the brakes, when descending steep hills.
- Automatic transmission: At highway speeds it is recommended that cruise control be used. Cruise control prevents the transmission from unnecessarily changing gears (particularly on grades). See Automatic transmission on pages 172 and 175 for further recommendations when towing.
- Do not use axle-mounted hitches.
- Ensure that the tow bar does not obscure the rear number plate. Remove the tow bar tongue when not required for towing.
- If a tow bar is removed, have any mounting holes in the underbody sealed to prevent entry of exhaust fumes, dust and water.

Trailer brakes

- Trailer brakes are mandatory on trailers with a gross trailer mass (GTM) of more than 750 kg.
- Consult the appropriate regulatory body in your State or Territory for the legal requirements of trailer brakes.

Running-in when towing

It is recommended that a new vehicle be driven for at least 1,500 km before towing.

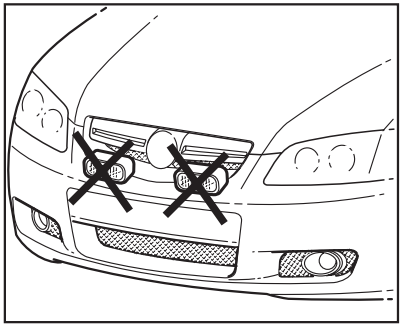
If towing is necessary before this, do not exceed 80 km/h. This also applies if the vehicle is fitted with a new or reconditioned engine, transmission or rear axle.

Vehicle maintenance

More frequent vehicle maintenance is required when using the vehicle to tow. See the Service/Warranty Booklet in the vehicle's glove box.

Conversions and add-ons

Fitting driving lamps or insect screens



Do not fit any accessory over the upper or lower air intakes at the front of the vehicle, as this may affect engine cooling.

Caution

In high load and high temperature applications (e.g. towing) no objects should be fitted over the upper or lower air intake at the front of the vehicle, as this could affect cooling.

Fitting roo/nudge bars

If a roo/nudge bar is to be fitted, it is critical that the Holden approved roo/nudge bar be used. Other types must not be fitted.

The Holden roo/nudge bar is available from a Holden Dealer and has been compatibility tested with the vehicle's design, including the Holden airbag system.

⚠Warning

Fitting other types of roo/ nudge bars may affect crash performance, airbag performance and engine cooling.

Roo/nudge bars:

- Should not be fitted to vehicles operating in suburban areas, as they increase the risk of injury to a pedestrian in the event of a collision.
- Are only recommended for country/outback areas, where additional protection from straying animals is required.

Vehicle care

General information 203
Vehicle checks 205
Bulb replacement 223
Electrical system 234
Vehicle tools 240
Wheels and tyres 241
Jump starting 261
Appearance care 266

General information

Where specified, use only Holden genuine parts and accessories.

Emission information

The emission control systems are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. HC and NOx, when exposed to sunlight under certain conditions, contribute to photochemical smog. In addition, CO is toxic when it becomes highly concentrated in the air.

Emission control system

Major emission control systems that the vehicle may have are:

1. Evaporative emission control system. This system is designed to prevent the escape of fuel vapour from the fuel system and recycle the vapours through the normal combustion process.
2. Crankcase emission control system. This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. Exhaust emission control system. The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust emission control system consists of components including electronic control of spark, fuel and idle speed. In addition vehicles have a catalytic converter and closed loop mixture control system.

It is recommended that service and repair to fuel or emission systems be carried out by an authorised Holden Dealer.

Owner responsibility

The engine, engine control system and exhaust system of the vehicle must NOT be modified in any way.

⚠Warning

Any person who removes, modifies or hinders any part of the emission control system may be contravening Australian Design Rules. It is also illegal to drive a vehicle modified in this way.

Maintenance requirements

Have the vehicle serviced at the frequency shown in the Maintenance schedule, in the Service/Warranty Booklet.

It is recommended that servicing be carried out by an authorised Holden Dealer who will maintain the vehicle's emission control system as per the Service/Warranty Booklet.

Reducing fuel consumption

Engine

Have the vehicle serviced regularly in accordance with the maintenance schedule in the Service/Warranty Booklet.

Transmission

For vehicles fitted with a manual transmission; when on level roads, in an unladen condition, it is permissible to drive off in 2nd gear, in the interest of fuel economy.

Tyre pressure

Keep the tyres at the recommended pressures.

Wheel alignment

Maintain correct front and rear wheel alignment.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel.

Avoid long engine idling.

Accelerating, driving and braking

Accelerate gently and avoid rapid starts.

Drive the vehicle at steady speeds where possible (after running-in).

Manual transmission: It is desirable to reach top gear as soon as possible, but do not force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake.

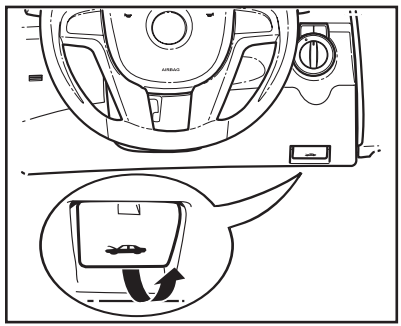
Air conditioning

Switch off the air conditioning when not required, however, once every 2 weeks, with the engine running, switch the air conditioning on for 5 to 10 minutes to lubricate the seals (even in winter).

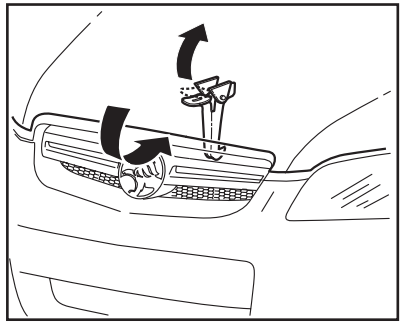
Vehicle checks

Bonnet

Opening



Pull the lever towards you.



Push up on the front edge of the release catch and lift. Gas struts automatically take over to lift and hold the bonnet in the open position.

Closing

⚠Warning

To avoid injury and/or damage to the vehicle, check each time, before the bonnet is closed, that the contact area is unobstructed.

Lower the bonnet and allow it to drop into the catch. Check that the bonnet is engaged.

⚠Warning

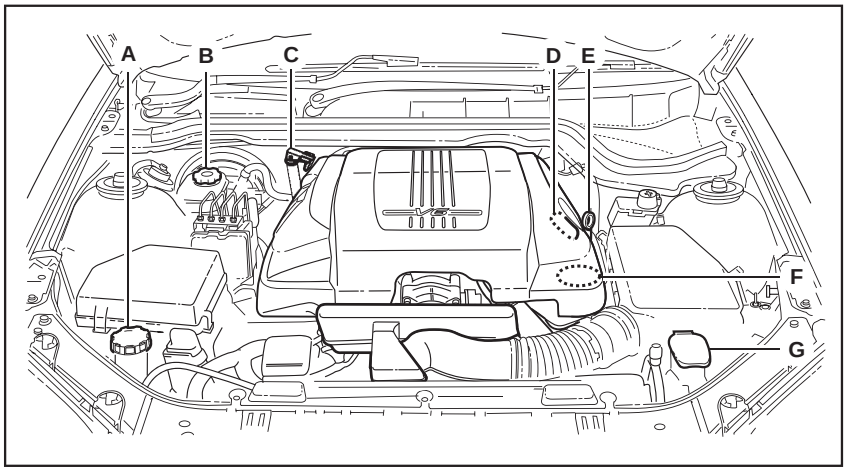
If while driving you notice that the bonnet has not been properly closed, pull the vehicle over to the side of the road at the earliest possible moment and close the bonnet correctly.

Note

- If the wiring of the bonnet switch is damaged or tampered with, it will be detected by the vehicle control system. The alarm will sound when the alarm system is armed.
- If the bonnet is not engaged when the vehicle is locked, will flash immediately. Unlock the vehicle, close the bonnet securely and relock.

Engine compartment overview

V6 engine

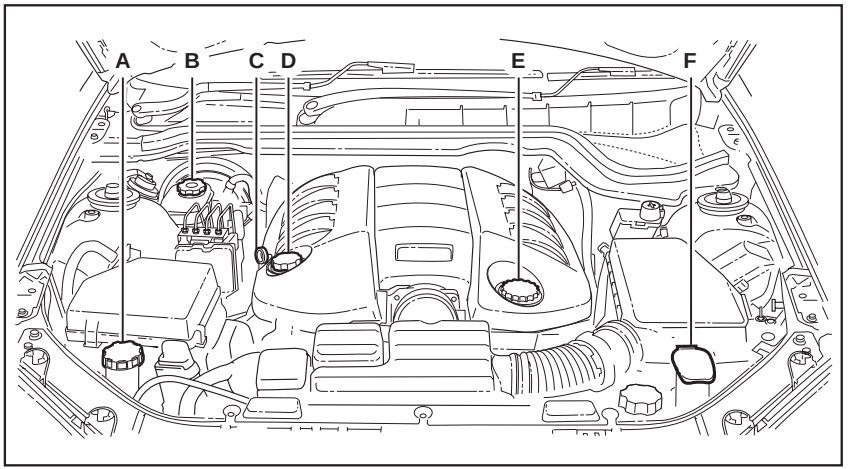


(SIDI) direct injection V6 engine shown

A. Engine coolant reservoir, see page 213
B. Clutch/brake fluid reservoir, see page 220
C. Automatic transmission dipstick and tube (4 speed), see page 212
D. Engine oil filler cap, see page 210
E. Dipstick for engine oil, see page 210
F. Power steering fluid reservoir, see page 218

   For access to the cap, see Engine cover on page 209
G. Windscreen washer fluid reservoir, see page 219

V8 engine



A. Engine coolant reservoir, see page 213
B. Clutch/brake fluid reservoir, see page 220
C. Dipstick for engine oil, see page 210
D. Engine oil filler cap, see page 210
E. Power steering fluid reservoir, see page 218
F. Windscreen washer fluid reservoir, see page 219

Engine cover

⚠Warning

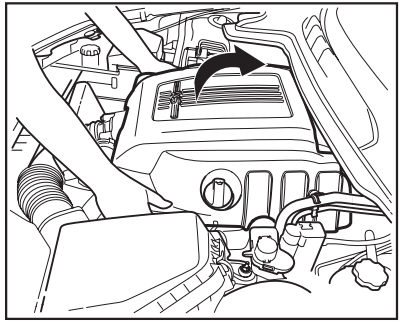
Do not place hands on any under bonnet components when the engine is HOT or RUNNING.

Before removing the engine cover, allow the engine to cool sufficiently.

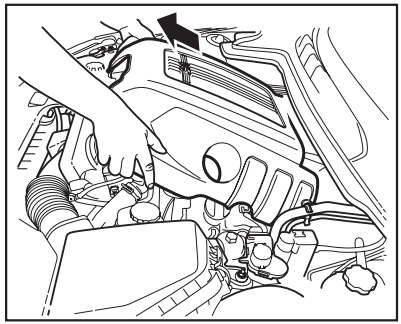
Removal

Remove the engine cover to access the power steering and radiator caps.

1. Turn the ignition off and remove the key.
2. Place the shift lever in **P** and apply the park brake firmly.

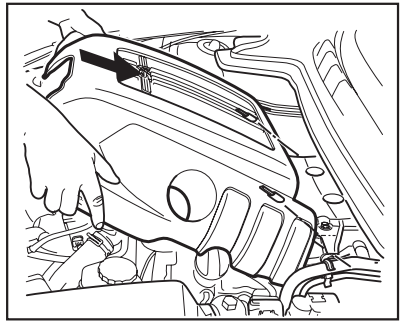


3. Open the bonnet. Lift the cover upwards approximately 15 cm.



4. Pull the cover towards the front of the vehicle.

Replacement



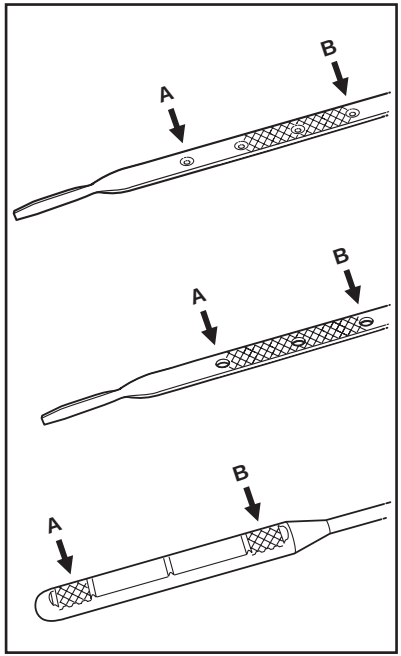
1. Place the cover over the rear guide tabs.
2. Lower the front of the cover so that the hole on the left side slides over the oil filler cap.
3. Press down on both front corners to engage the fasteners. Pull upwards on the cover to ensure it is secure.

Engine oil

Checking oil level

The engine must be at operating temperature and the ignition turned off for at least 10 minutes.

1. Park the vehicle on a level surface.
2. Remove the dipstick and wipe clean.
3. Insert the dipstick firmly.
4. Remove and read the oil level. The level should be between the area/marks (A) and (B). Add oil if the level is at area/mark (A).



Different dipsticks are used depending on engine variant.

A. Add mark
B. Upper mark

Adding engine oil

See Capacities on page 277.

1. Rotate the engine oil filler cap anticlockwise and remove.
2. Add enough oil to reach within the area/mark (B).
3. Check the level on the dipstick and add further oil if necessary.

   The engine oil must not exceed the area/mark (B).
4. Replace the engine oil filler cap tightly by rotating clockwise.

Note

Non-detergent and other low quality oils, the use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use increases costs, may be detrimental to the operation of the vehicle and may void the New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of the vehicle.

Engine oil change intervals

Refer to the Service/Warranty Booklet.

Engine oil life system

The engine is dependent on oil for lubricating critical areas subjected to high friction loads:

- The cylinder walls
- The pistons and rings
- The valve stems

Some oil from these areas is carried into the combustion chamber and burnt during the combustion process.

Other factors that contribute to the rate of oil consumption in the engine:

Operation of the vehicle

High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

Always check the oil level prior to towing or going on a long trip.

Quality and grade of oil

If an oil is too 'thin' (low viscosity), the oil consumption will increase. Use only the recommended grades of oil.

Oil level

Maintain the required oil level.

Over filling causes:

- Oil to splash onto the cylinder walls
- Excess oil to be drawn into the combustion chamber and burnt
- Oil in the sump to become aerated causing damage to the engine

Dilution

When a vehicle is frequently driven on short trips, the engine often fails to reach normal operating temperatures:

- The oil becomes diluted by fuel and moisture that settles in the oil pan.
- This may raise the oil level creating a false reading on the engine oil dipstick.

For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the area/mark (B), due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, resulting in a sudden drop in oil level.

Measuring oil consumption

The amount of oil added for the kilometres travelled indicates the oil economy of the engine.

- Check the oil level at the start and finish of the test on a level surface.
- Allow time for the oil to drain (approximately 10 minutes after the engine is switched off).
- Avoid minor top ups of 0.25 to 0.5 litres.

Engine oil consumption may be assessed when the vehicle has run at least 10,000 km.

To test consumption:

1. Add sufficient oil to bring the level up to the area/mark (B) on the dipstick.
2. Note the odometer reading
3. Check the oil periodically.
4. When the level reaches the area/mark (A), measure the amount of oil required to return the level back to the area/mark (B).
5. Note the odometer reading.

If the oil requires regular topping up, contact a Holden Dealer.

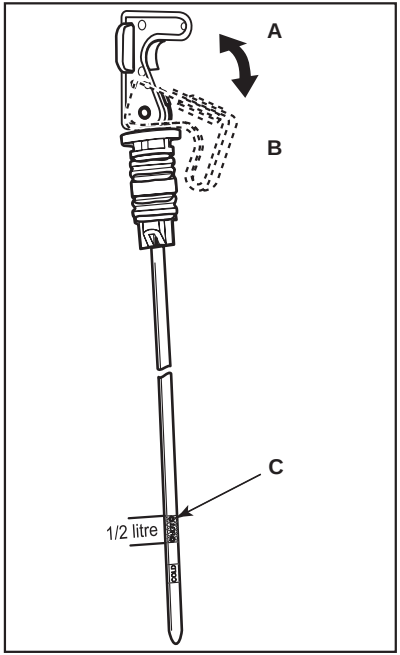
Automatic transmission fluid (4 speed)

Checking fluid level

Drive the vehicle for at least 20 km to ensure the fluid is hot.

1. Park the vehicle on a level surface with the engine running.
2. Ensure that the shift lever is in **P** and apply the park brake.
3. Lift the handle (A) and remove the dipstick.
4. Wipe clean with a clean cloth or paper.
5. Insert the dipstick.
6. Remove and read the fluid level. When the fluid is hot, the level should be within the area (C).

Note
Six speed automatic transmission fluid levels are checked when the vehicle is serviced by a Holden Dealer.



Adding transmission fluid

Use only Holden specified automatic transmission fluid. See Recommended fluids, lubricants and parts on page 271.

1. Add fluid into the automatic transmission dipstick tube (where the dipstick is stored).
2. Wait 1 minute for the fluid to settle (clean up any spilt fluid).
3. Check the level on the dipstick while the engine is running and add further fluid if necessary.

   The fluid level must not exceed area (C).
4. Replace the dipstick and lock the handle (B).

If the transmission fluid requires regular topping up, contact a Holden Dealer.

Engine coolant

Note

For all engine variants, the coolant reservoir is in the same position within the engine compartment.

Engine coolant level

Check the coolant level at least once a week. The cap is yellow with the word **DEXCOOL**.

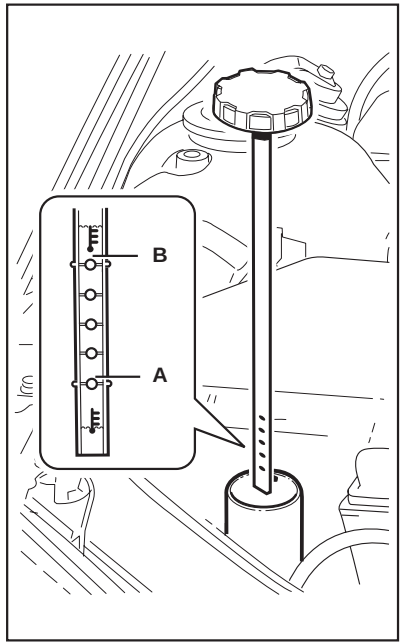
Checking coolant level

⚠Warning

Do not remove the radiator cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

1. Turn the ignition off.
2. Rotate the coolant cap one-eighth of a turn anticlockwise and slowly pull out the dipstick.
3. When the engine is cold, the coolant level should be at or above the minimum mark (A).

When the engine is warm, the level should be between half full and the maximum mark (B).



Adding coolant

Caution

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

For engine coolant specifications and water-to-coolant ratio, see Recommended fluids, lubricants and parts on page 271. Always use the specified ratio.

1. Mix a solution of Holden coolant and clean fresh water.
2. Add coolant into the coolant dipstick tube (where the dipstick is stored).
3. Check the level on the dipstick and add further coolant if necessary.

   The fluid level must not exceed the maximum mark (B).
4. Replace the dipstick.
5. Rotate the cap one-eighth of a turn clockwise until secure and the word **DEXCOOL** can be read from the front of the vehicle.

In emergency situations, plain clean fresh water may be used temporarily until the correct Holden coolant is obtained. Replace as soon as possible from the nearest Holden Dealer.

If the coolant requires regular topping up, contact a Holden Dealer.

How the engine coolant works

- The coolant contains special corrosion inhibitors.
- Coolant helps the cooling system in hot weather by increasing the boiling point.
- Coolant protects against freezing down to –37°C, provided the specified concentration is maintained.

⚠Warning

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed, seek medical attention. Do not remove the coolant reservoir cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

If the engine overheats or loses coolant, see Engine overheating on page 215.

Engine overheating

Caution

Immediate action is required if the engine overheats. This is indicated by one or more of the following:

- The engine temperature gauge needle moving over to the **H**.
- The animated warning **Engine Temp Hot** appearing on the central display, see page 70.
- Steam escaping from under the bonnet.
- A loss of power.
- A loud knocking or pinging noise.

Continued driving EVEN FOR A SHORT TIME could cause engine damage. Stop the vehicle as soon as it is safe to do so and perform the cooling system checks.

⚠Danger

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Scalding fluid and steam can be blown out under pressure which could cause serious burns. Wait until no steam or coolant can be seen or heard before opening the bonnet.

Do not remove the radiator cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Do not place hands near under bonnet components as the cooling fan may start working unexpectedly even when the engine is not running and the ignition is turned off.

Cooling system checks

1. Leave the engine idling.
2. Ensure that the shift lever is in **P** or neutral and apply the park brake.
3. Exit the vehicle and audibly check that the cooling fan is working.

If the fan is working and the engine temperature gauge needle has not returned to its normal position within a few minutes:

1. Turn the ignition off and remove the key.
2. Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

⚠Warning

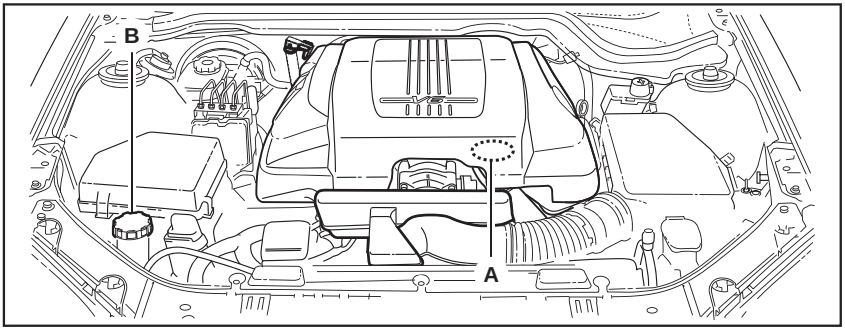
Take care when checking these areas as they may still be hot.

3. Check the air intake area in the front bumper to ensure that it is clear. See Air intakes on page 267.
4. If you do not find anything wrong, check the engine coolant level. See Engine coolant on page 213.
5. DO NOT run the engine until any problems have been corrected.

Low coolant level

⚠Danger

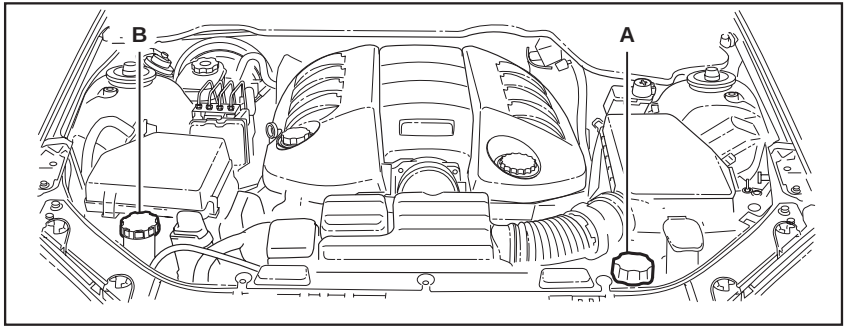
Do not remove the radiator cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.



(SIDI) direct injection V6 engine shown

When the engine is cool, check the coolant reservoir level and radiator level and fill as follows:

Note
For all engine variants, the coolant reservoir is in the same position within the engine compartment.



V8 engine shown

1. Check the coolant reservoir level (B). Add coolant if low. See Engine coolant on page 213.

⚠Danger

Do not remove the radiator cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Remove the engine cover if required. See Engine cover on page 209.

2. Locate the radiator cap (A).
3. Cover the cap with a thick cloth and rotate slowly anticlockwise to remove.

Caution

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

4. As well as adding coolant to the coolant reservoir, add coolant directly through the radiator cap opening until full.
5. Wait 30 seconds for the coolant to settle.
6. Add more coolant if the level drops.

Caution

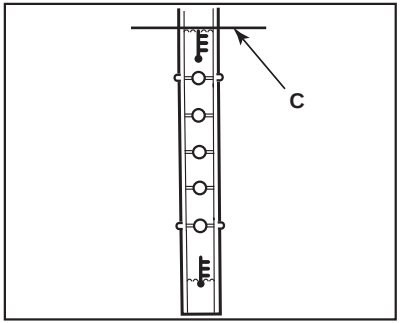
Take care not to spill coolant on the accessory drive belts.

If a spill occurs, rinse the belts immediately with fresh water.

7. Start the engine.

8. Add coolant through the radiator cap opening until full.

   Wait 30 seconds and top up if the level drops.
9. Replace the radiator cap.
10. Turn the ignition off.
11. Check the coolant reservoir dipstick and add further coolant if necessary, up to level (C).



Check the coolant reservoir level for the next 2 days.

If the coolant requires regular topping up, contact a Holden Dealer.

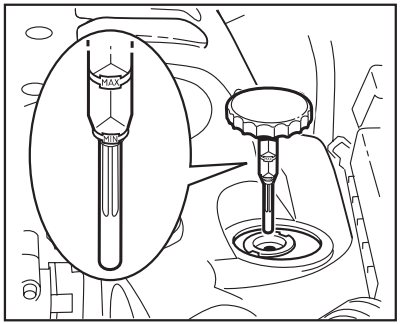
Note
The following may cause the engine to temporarily operate at high temperatures, especially on hot days:

- Climbing a long hill.
- Stopping immediately after high speed driving.
- Idling for long periods in traffic.
- Towing a heavily laden trailer or caravan.

If the engine temperature gauge shows **H**, switch off the air conditioning.

Power steering fluid

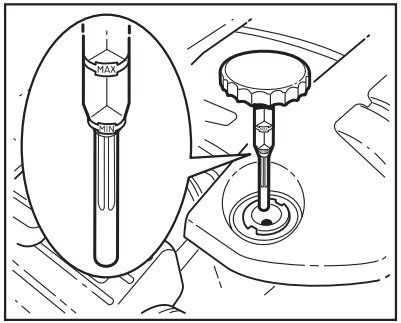
Checking fluid level



V6 engine shown

Drive the vehicle for at least 20 minutes to ensure the fluid is warm. Checking the level when cold is not recommended.

Note
For all V6 engine variants, the power steering fluid reservoir locations are in similar positions within the engine compartment.



V8 engine shown

1. Wipe the sides of the cap clean.
2. Rotate the cap anticlockwise.
3. Remove and read the fluid level. When the engine is hot, the level should be at the **MAX** level.

   When the engine is cold, the fluid level must be between **MIN** and **MAX**.

Adding power steering fluid

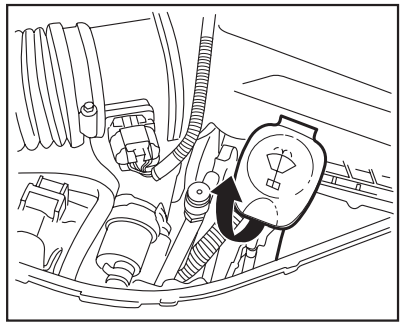
Use only Holden specified power steering fluid. See Recommended fluids, lubricants and parts on page 271.

1. Turn the ignition off.
2. Add power steering fluid.

   Do not overfill the reservoir.
3. Secure the cap and clean up any spilt fluid.

If the power steering fluid requires regular topping up, contact a Holden Dealer.

Washer fluid



The washer fluid reservoir supplies water to the front windscreen washer.

Check the fluid level weekly.

Adding washer fluid

1. Use the correct amount of washer fluid additive. Refer to a Holden Dealer.

   Do not use ordinary soap or detergent as they froth up and damage the wiper rubbers.
2. Secure the cap.

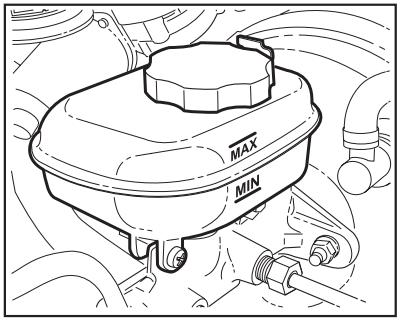
Brake fluid

(Automatic transmission)

⚠Warning

Brake fluid is poisonous and corrosive and will damage the paint finish of the vehicle if spilt.

Checking the brake fluid level



Check the brake fluid level weekly.

The level should be between the **MIN** and **MAX** area.

If the fluid level is correct, do not remove the reservoir cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

Adding brake fluid

Use heavy duty brake fluid. See Recommended fluids, lubricants and parts on page 271.

1. Turn the ignition off.
2. Wipe the sides of the cap clean.
3. Rotate anticlockwise to remove.
4. Top up with heavy duty brake fluid.

⚠Warning

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

5. Secure the cap and clean up any spilt fluid.

If the brake fluid requires regular topping up, contact a Holden Dealer immediately.

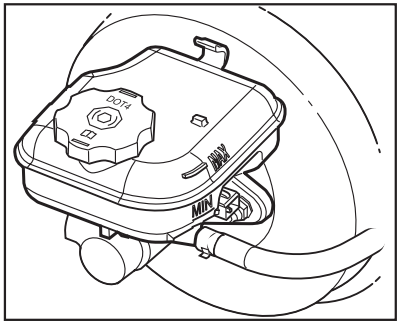
Clutch/brake fluid

(Manual transmission)

⚠Warning

Clutch/brake fluid is poisonous and corrosive and will damage the paint finish of the vehicle if spilt.

Checking the clutch/brake fluid level



Check the clutch/brake fluid reservoir weekly.

The level should be between the **MIN** and **MAX** area.

If the fluid level is correct, do not remove the reservoir cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

Adding clutch/brake fluid

Use heavy duty brake fluid. See Recommended fluids, lubricants and parts on page 271.

1. Turn the ignition off.
2. Wipe the sides of the cap clean.
3. Rotate anticlockwise to remove.
4. Top up with heavy duty brake fluid.

⚠Warning

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

5. Secure the cap and clean up any spilt fluid.

If the clutch/brake fluid requires regular topping up, contact a Holden Dealer immediately.

Battery

⚠Warning

Batteries emit an explosive gas mixture which may be ignited. Therefore, you should keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with plenty of water. In case of eye contact, flush with plenty of water and contact a doctor immediately. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.

Take care with all metal objects and tools including items you may wear (for example jewellery, rings and metal watch bands) near battery terminals.

Battery replacement

⚠Warning

A specifically developed battery with a ventilation system is required for this vehicle. Any other standard battery may cause explosive gases to enter the passenger cabin.

Do not remove the caps on the top of the battery. The battery supplied in the vehicle is maintenance free and does not require checking or filling.

The battery vent tube must be installed correctly to ensure the explosive gases are vented outside the vehicle.

Only use a manufacturer recommended battery as a replacement, otherwise the electric power management (EPM) system may not operate correctly.

For replacement, refer to a Holden Dealer or authorised repairer.

The battery is located inside the passenger cabin, behind the passenger seat. It is secured behind a small access panel.

Battery disconnection

The battery may discharge if the vehicle is not used for approximately six weeks.

If the battery is disconnected it may discharge after approximately 12 weeks. Trickle feed on a battery charger overnight, before installing back into the vehicle.

If the battery is disconnected:

- Some trip computer displays will be reset.
- Some personal identity key settings may be forgotten. The driver's settings will be remembered the next time the features are adjusted. See Personal identity keys on page 19.

For emergency starting when the battery is flat, see Jump starting on page 261.

Bulb replacement

Contact a trained service technician if unsure about the bulb replacement process.

When replacing bulbs:

- Turn the ignition off and remove the key.
- Turn off related switches.
- Fit bulbs of the specified wattage only.
- Do not touch bulbs or reflectors with bare hands.
- Clean stained bulbs with methylated spirits.

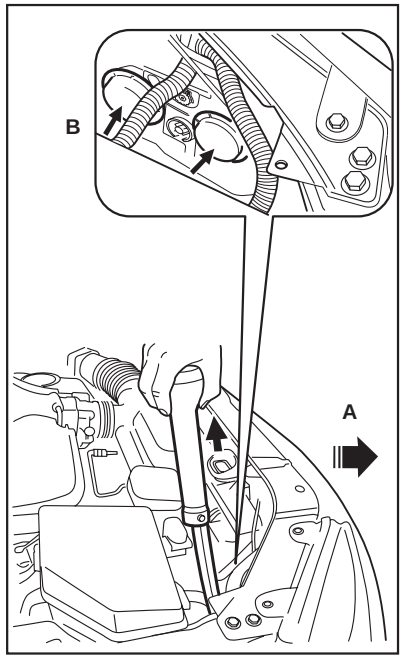
Bulbs to be changed by a Holden Dealer

- Fog lamps
- Instrument panel lamps
- Rear high level stop lamp
- Interior dome lamps
- Load area illumination lamp

Caution

Condensation may temporarily appear on the inside of exterior lamp lenses after rain or washing the vehicle. Condensation occurs when there is a temperature difference between the inside and outside of the lamp allowing a fine mist on the inside surface of the lamp lens. This condensation will disappear when the vehicle is in a dry environment or the lamp is on. If water does collect in the lamp contact a Holden Dealer.

Front lamps

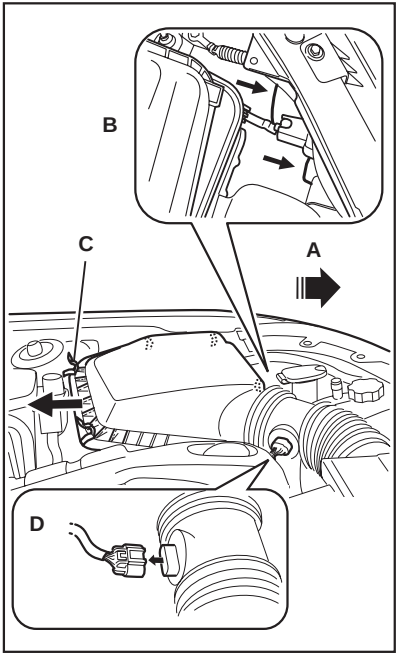


A. Front of vehicle

B. Headlamp bulbs location, driver side

1. Open the bonnet and locate the coolant reservoir to access:
   - Front park bulbs
   - Front turn signal bulbs
   - High and low beam bulbs
2. Pull up on the coolant reservoir filler neck (including the cap).
3. Drain the filler neck before pulling out.

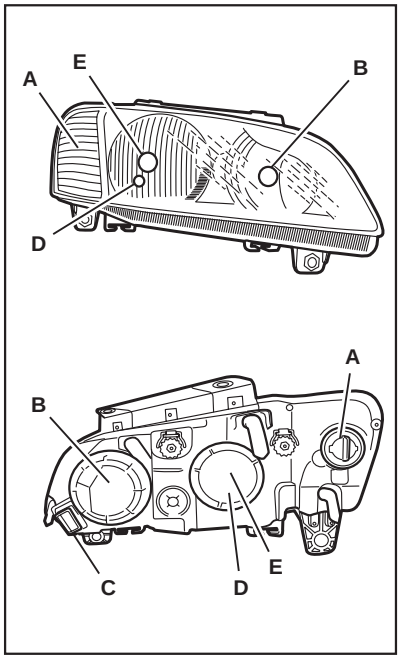
   Place a clean rag over the opening of the coolant reservoir.



A. Front of vehicle
B. Headlamp bulbs location, passenger side

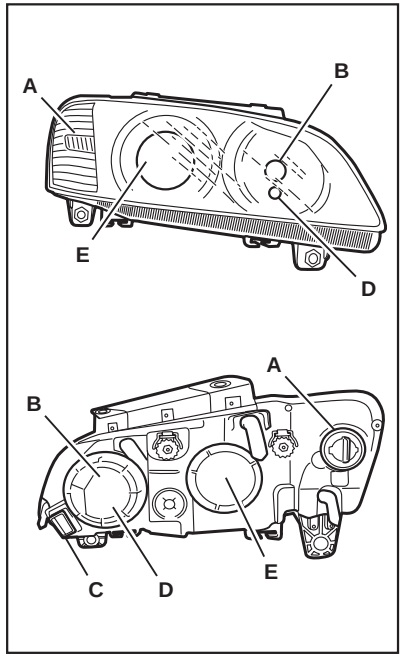
4. Unclip the air filter box cover (C) and move rearward.
5. Disconnect the air flow meter connector (D) (V8 only).

Front lamp assembly



Driver side shown

A. Front turn signal lamp (PY21W amber bulb)
B. Headlamp inboard high beam (H9 bulb, 65W)
C. Headlamp wiring connector
D. Park lamps (W5W bulb)
E. Headlamp outboard low beam (H7 bulb, 55W)



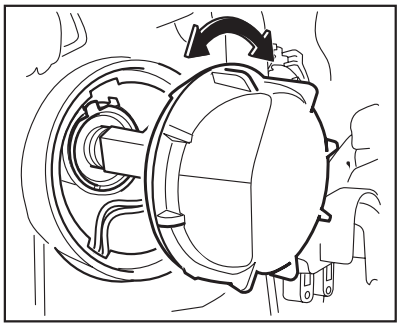
Driver side shown

Depending on the model variant, the park lamp bulb (D) may be in either of two positions.

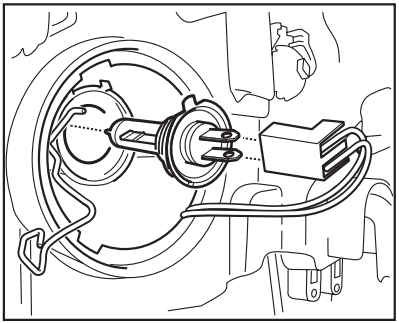
Headlamps

Outboard low beam

1. To access the headlamps, see Front lamps on page 223 and follow the steps.



2. Rotate the outboard dust cap anticlockwise and remove.

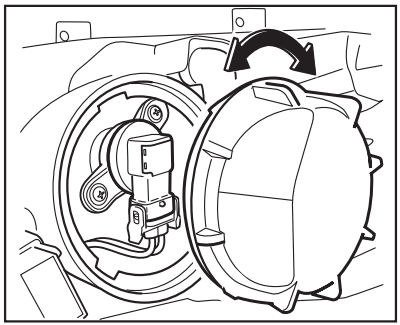


3. Pull to remove the wiring harness connector from the rear of the bulb.
4. Press and unclip the bulb spring retainer and pivot clear of the bulb.

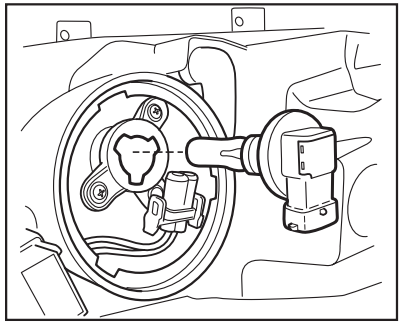
   Note
   Check the orientation of the bulb tang for replacement.
5. Remove the bulb from the headlamp.
6. Fit the new bulb into the headlamp ensuring the location tang is located correctly.
7. Refit the bulb spring retainer into its original position.
8. Install the wiring harness connector and dust cap (ensuring the rubber seal is in place).
9. Install components removed in Step 1.
10. Check lamp operation.

Inboard high beam

1. To access the headlamps, see Front lamps on page 223 and follow the steps.



2. Rotate the inboard dust cap anticlockwise and remove.
3. Remove the wiring harness connector by squeezing the two tangs on the harness connector and pulling the connector downwards.



4. Twist the bulb anticlockwise to remove.

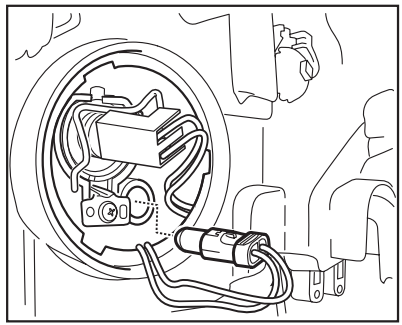
   Note
   The different sized locating tangs on the bulb base allow the bulb to sit correctly into the headlamp in one position only.

5. Twist the bulb clockwise to install.
6. Install the wiring harness connector and dust cap (ensuring the rubber seal is in place).
7. Install components removed in Step 1.
8. Check lamp operation.

Parking lamps

Front park lamps (Type A)

1. To access the headlamps, see Front lamps on page 223 and follow the steps.

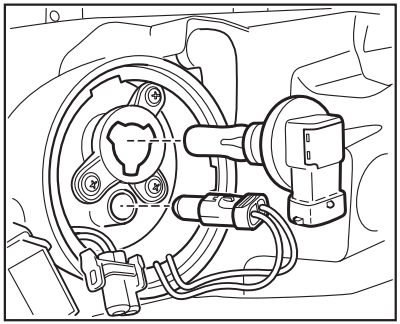


2. Remove the outboard low beam dust cover to access the bulb.
3. Remove the park lamp bulb holder by pulling it straight out.
4. Remove the park lamp bulb by pulling it straight out of the holder.
5. Insert the new bulb into the holder.

6. Install the holder.
7. Replace the low beam bulb dust cap (ensuring the rubber seal is in place).
8. Install components removed in Step 1.
9. Check lamp operation.

Front park lamps (Type B)

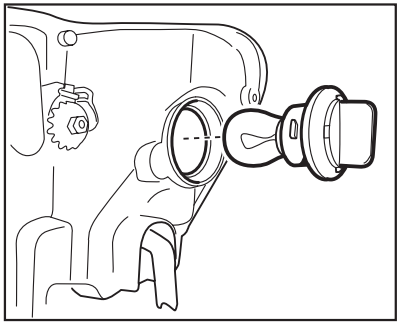
1. To access the headlamps, see Front lamps on page 223 and follow the steps.



2. Remove the inboard high beam dust cover to access the bulb.
3. Remove the high beam bulb to access the park lamp bulb. See Inboard high beam on page 227.
4. Remove the park lamp bulb holder by pulling it straight out.
5. Remove the park lamp bulb by pulling it straight out of the holder.
6. Insert the new bulb into the holder, then install the holder. Install the high beam bulb and dust cap (ensuring the rubber seal is in place).
7. Install components removed in Step 1.
8. Check lamp operation.

Front turn signal lamps

1. To access the headlamps, see Front lamps on page 223 and follow the steps.
2. Remove the outboard dust cap.



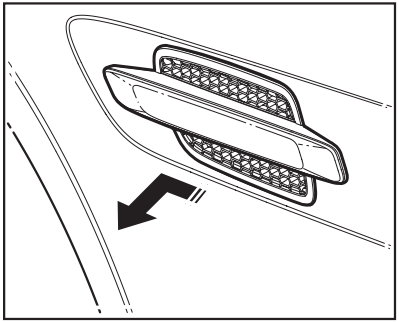
3. Rotate the bulb holder anticlockwise and remove.
4. Lightly press the bulb and twist anticlockwise out of the holder.
5. Insert the new bulb and install the bulb holder.

   Ensure that the same colour bulb is used.

6. Install components removed in Steps 1 and 2.
7. Check lamp operation.

Side marker lamps

(W5W bulb)

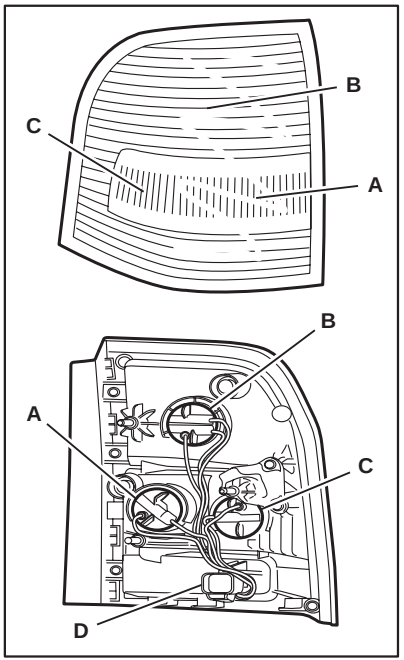


1. Grasp the lens at the rear, push forwards and pull away from the body of the vehicle.
2. Separate the bulb holder from the lens assembly by rotating the bulb holder anticlockwise.
3. Remove the bulb by pulling it straight out of the holder.
4. Insert the new bulb into the bulb holder.
5. Install the bulb holder into the lens housing.

   The bulb holder only fits into the lens housing one way. Keep rotating the bulb holder clockwise until it fits into place and can be tightened.
6. When inserting the lamp, first insert the rear of the housing into the body panel before pushing the front inwards.
7. Check lamp operation.

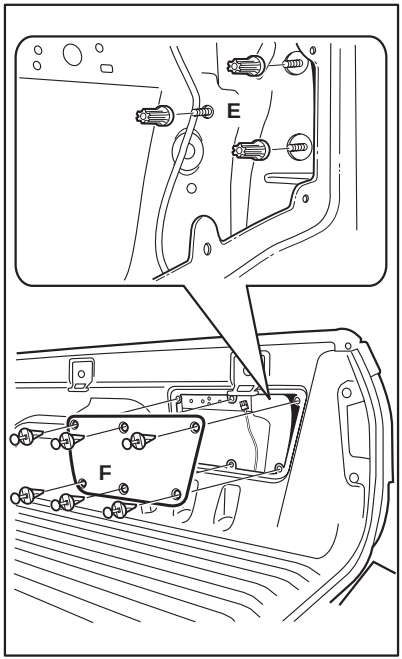
Tail lamps

Tail lamp assembly



A. Reverse lamp (P21W bulb)
B. Stop/tail lamp (P21/5W bulb)
C. Turn signal lamp (PY21W amber bulb)
D. Rear lamp wiring connector

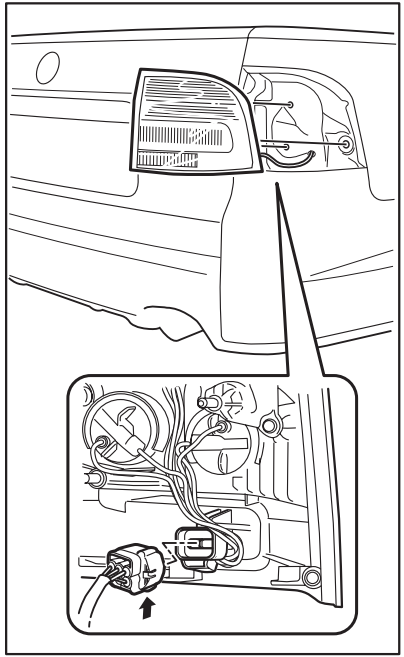
Tail lamp access



To gain access to the rear turn signal, stop/tail and reverse bulbs:

1. Remove the six scrivets and the access panel (F).

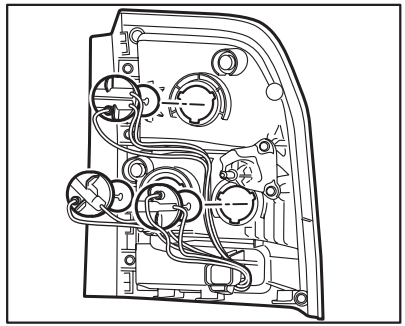
   Use a flat-blade screwdriver to prise outwards under the head of the centre pin of the scrivet.
2. Undo the three lamp assembly securing nuts (E).
3. Carefully remove the lamp assembly from the vehicle.



4. From the rear of the lamp disconnect the wiring connector.

   Push the tab at the bottom of the connector to remove.

Rear turn signal, stop/tail, reverse



1. For access to the lamp assembly, see Tail lamp access on page 230.
2. From the rear of the assembly, rotate the bulb holder anticlockwise to release it from its housing.
3. Lightly press the bulb and twist anticlockwise out of the holder.

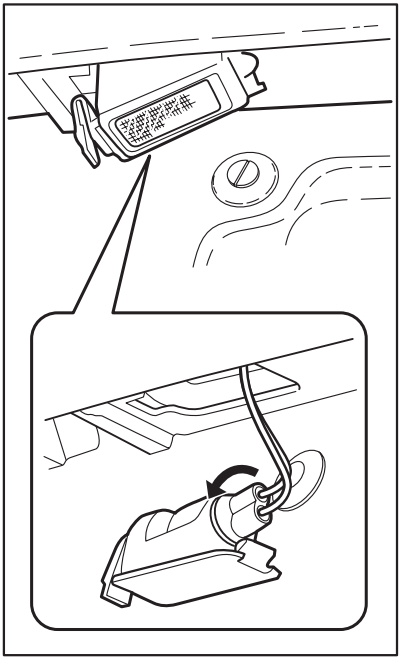
4. Install the new bulb by pushing it into the holder and rotating it clockwise.

   Ensure that the same colour bulb is used.
5. Install the bulb holder into the lamp.
6. Install the components removed in Step 1.
7. Carefully tighten the three plastic lamp assembly securing nuts to 2.0 - 4.0 Nm.

   Do not over tighten.
8. Check lamp operation.

Number plate lamp

(W5W bulb)

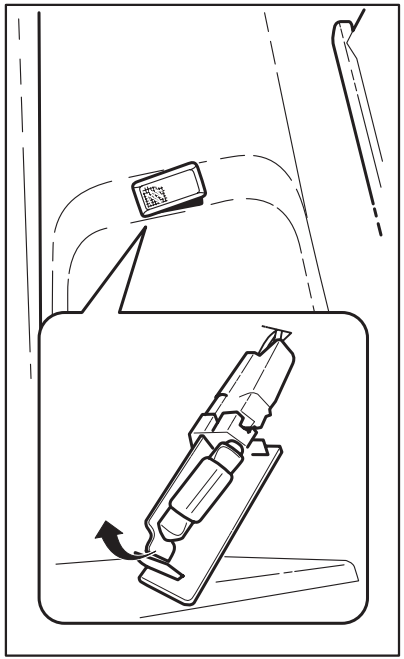


1. Push the locking tang at the end of the lamp housing towards the lens and pull the lamp assembly downwards.
2. Remove the bulb holder from the lamp housing by rotating the bulb holder anticlockwise.
3. Pull the bulb out of the bulb holder.
4. Push the new bulb into the bulb holder.
5. Install the bulb holder into the lamp housing by rotating the bulb holder clockwise, ensuring that the seal is undamaged.
6. Engage the fixed tang into the number plate surround, then push the lamp upwards to engage the locking tang.
7. Check lamp operation.

Cabin storage lamp

(Festoon bulb, 5W)

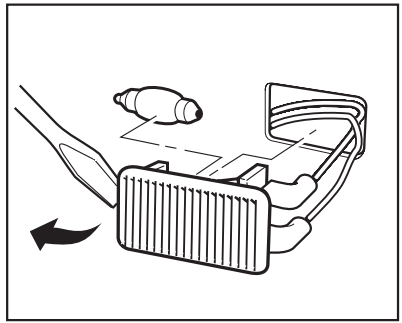
The vehicle may have cabin storage lamps.



1. Gently prise away the lens housing with a fine flat-blade screwdriver.
2. Pull the tab holding the bulb (opposite end to wiring) backwards and pull the bulb out.
3. To install the new bulb, pull the tab backwards.
4. When the new bulb is in place, feed the wiring back into the cavity and push the lens housing back into place.

Glove box lamp,

(Festoon bulb, 5W)

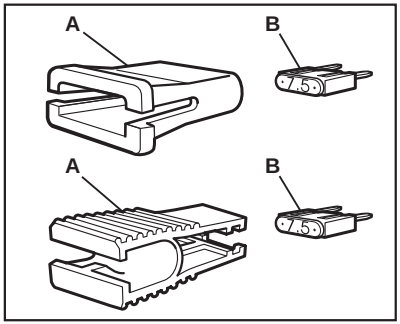


1. Remove the lens housing with a fine flat-blade screwdriver.
2. Pull the tab holding the bulb (opposite end to wiring) backwards and pull the bulb out.
3. To install a new bulb, pull the tab backwards.
4. When the new bulb is in place, feed the wiring back into the cavity and push the lens housing back into place.

Electrical system

⚠Warning

Turn off the ignition (LOCK position) and any electrical equipment before changing a fuse.



A. Fuse puller

B. Fuse

A fuse puller is provided in the cabin and engine compartment fuse panels, which can be used on each of the three fuse panels.

Spare fuses of various ratings are provided in the cabin and engine compartment fuse/relay boxes.

Replace blown fuses promptly.

Always replace a blown fuse with one of the same amperage.

The amperage is shown on the fuse's head:

Colour	Rating (amps)
Grey	2
Brown	7.5
Red	10
Blue	15
Yellow	20
Natural	25
Green	30

Replace the fuse cover securely after use.

⚠Warning

When replacing a fuse be sure to use a fuse of the specified amperage.

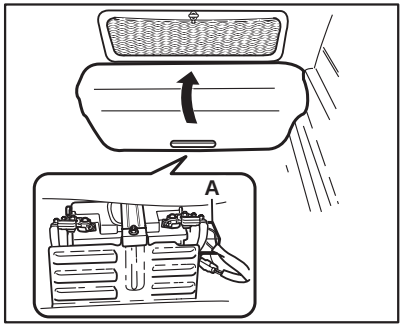
Never install a wire or similar as it could damage electrical components and cause a fire.

Any improper alterations to the electrical system may cause a fire hazard and engine damage. To maintain your own safety and that of the vehicle, have any work involving the electrical system or the replacement of high current fuses or relays carried out by a Holden Dealer.

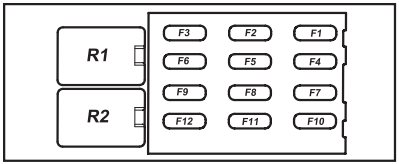
Fuses and relays

The rear fuse panel (A) is located behind the passenger seat to the side of the battery.

To locate, lift up the access flap.



Fuse and relay index



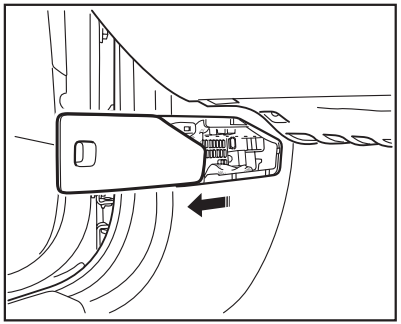
Fuses

F1	REAR SEAT ENTERTAINMENT	(10A)
F2	AMPLIFIER	(30A)
F3	DEALER OPTIONS	(10A)
F4	RADIO & INFOTAINMENT	(25A)
F5	INST/DISP/RFA/DLC	(10A)
F6	REAR ACCESSORY POWER OUTLET (APO)	(20A)
F7	TRAILER	(30A)
F8	SPARE	
F9	SPARE	
F10	ECM BATT	(15A)
F11	RVC SENSE	(7.5A)
F12	FUEL PUMP	(20A)

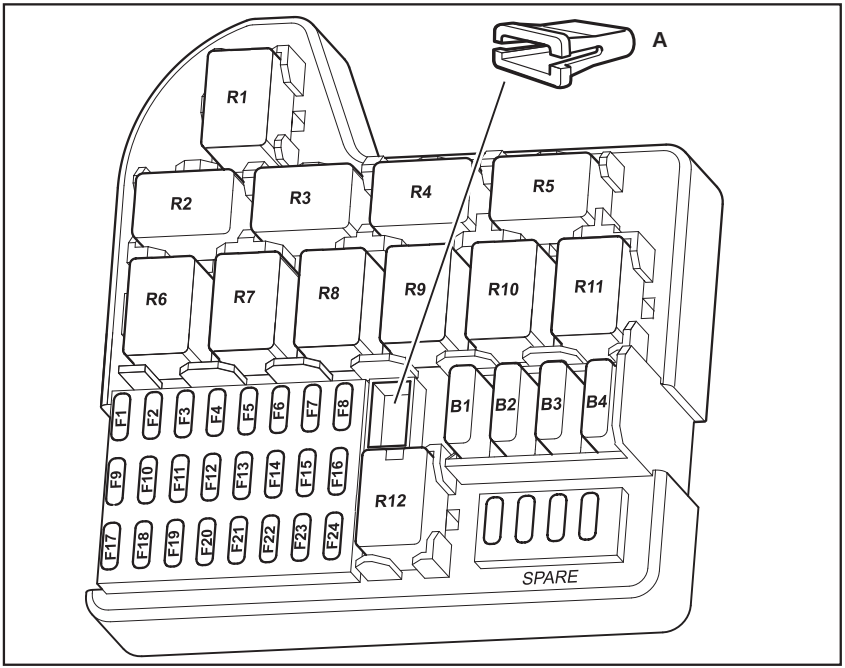
Relays

R1	SPARE
R2	SPARE

Cabin fuses and relays



Pull on the slot in the fuse panel cover and slide rearwards to access the fuse panel.



A. Fuse puller

Cabin fuse and relay index

Circuit breakers:

B1 POWER WINDOWS BATTERY ..... (20A)
B2 POWER WINDOWS RAP .... (20A)
B3 POWER SEATS ..... (20A)
B4 SPARE

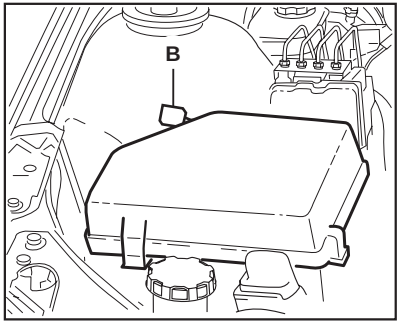
Fuses:

F1 SIR (SRS)..... (10A)
F2 REAR END RELEASE/ SEDAN ..... (10A) WAGON ..... (30A)
F3 DOOR LOCKS ..... (25A)
F4 INADVERT POWER/ LED DIM..... (15A)
F5 COURTESY LIGHTS/RT FT TURN SIGNAL..... (15A)
F6 TURN SIGNAL RIGHT, SIDE AND REAR..... (15A)
F7 EDI ..... (15A)
F8 TURN SIGNALS LEFT..... (15A)
F9 BCM LOGIC ..... (10A)
F10 STOP LAMPS/ PARK ASSIST ..... (15A)
F11 CONSOLE LIGHTING..... (15A)
F12 IGN SW/THEFT..... (2A)
F13 REAR LIGHTER..... (20A)
F14 FRONT APO (AUXILIARY POWER OUTLET) ..... (20A)
F15 OUTSIDE MIRROR/ RPA OPTION..... (2A)
F16 PHONE/KEY LK/ISRVM/ RAIN SENSOR..... (10A)
F17 SUNROOF ..... (20A)
F18 REAR WIPER..... (20A)
F19 SPARE
F20 SPARE
F21 SPARE
F22 FRONT LIGHTER/ FRONT APO..... (20A)
F23 STRG WHEEL ILLUMINATION ..... (2A)
F24 RAP CONTROL PWR WDO ..... (2A)

Relays:

R1 RAP-RETAIN ACCESSORY POWER RELAY
R2 ALL DOOR LOCK RELAY
R3 PASS DOOR UNLOCK RELAY
R4 SPARE
R5 REAR END RELEASE RELAY
R6 DRIVERS DOOR UNLOCK RELAY
R7 SPARE
R8 ACCESSORY POWER RELAY
R9 SPARE
R10 SPARE
R11 SPARE
R12 FUEL PUMP RELAY

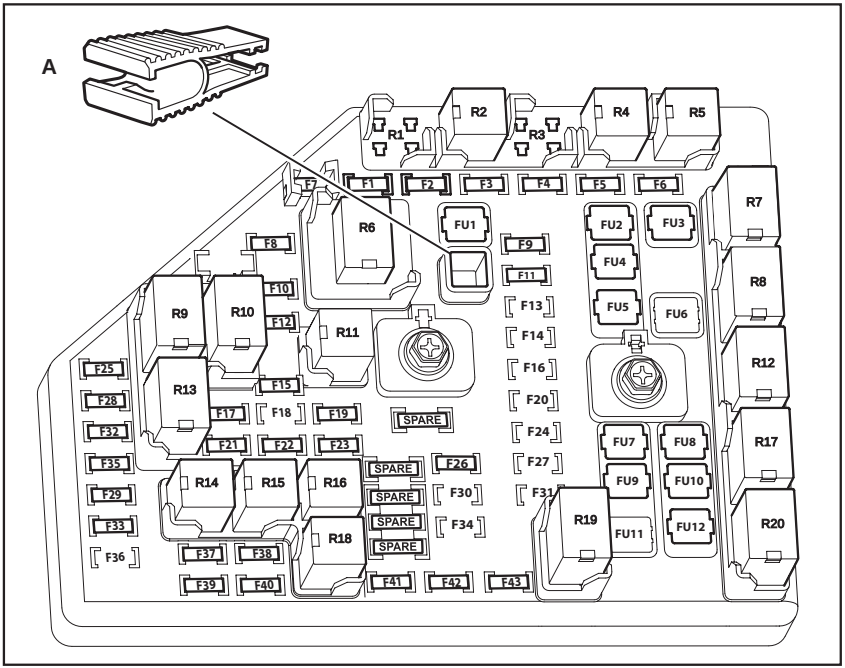
Engine compartment fuses and relays



This is the main fuse/relay box.

Remove the clip-on cover to access.

B. Vacuum pump relay (R21)



A. Fuse puller

Engine compartment fuse and relay index

Fuses:

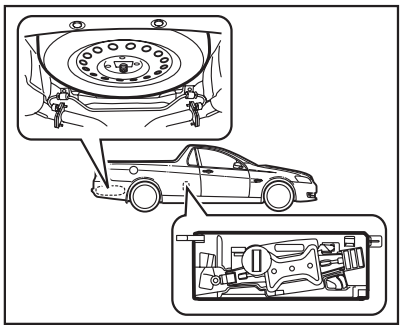
FU1 BRAKE VACUUM PUMP ..... (20A)
FU2 REAR DEFOG..... (40A)
FU3 ABS MOTOR..... (40A)
FU4 BATT MAIN 3 ..... (50A)
FU5 BATT MAIN 1 ..... (50A)
FU6 SPARE
FU7 BATT MAIN 2 ..... (50A)
FU8 STARTER..... (40A)
FU9 HVAC BLOWER MOTOR..... (40A)
FU10 FAN 1 ENGINE COOLING (RIGHT)..... (30A)
FU11 SPARE
FU12 FAN 2 ENGINE COOLING (LEFT) ..... (30A)
F1 COMM ENABLE..... (10A)
F2 HVAC BATT..... (10A)
F3 BACK UP LAMP..... (15A)
F4 FOG LAMPS (FRONT)..... (15A)
F5 ABS VALVES..... (25A)
F6 SPARE
F7 HEADLAMP WASH..... (30A)
F8 HORN..... (15A)
F9 TCM..... (15A)
F10 LEFT LOW BEAM (BASE/HID) ..... (10/20A)
F11 SPARE ..... (10A)
F12 RIGHT LOW BEAM (BASE/HID) ..... (10/20A)
F13 SPARE
F14 SPARE
F15 FRONT WIPER ..... (30A)
F16 SPARE
F17 THEFT HORN ..... (10A)
F18 A/C CLUTCH..... (10A)
F19 RIGHT HIGH BEAM..... (10A)
F20 SPARE
F21 FRONT WASHER (WSW).... (15A)
F22 SPARE
F23 LEFT HI BEAM..... (10A)
F24 SPARE
F25 REVERSE LOCKOUT/TOSS/ CANISTER VENT/ FUEL SNSR ..... (15A)
F26 REAL TIME DAMPING..... (25A)
F27 SPARE
F28 ECM 1/ODD COILS..... (15A)
F29 EVEN COILS/ INJECTORS..... (20A)
F30 SPARE
F31 SPARE
F32 EMISSION 2..... (15A)
F33 EMISSION 1..... (15A)
F34 SPARE
F35 ODD INJECTORS/COILS/ ECM 1 ..... (20A)
F36 SPARE
F37 SPARE
F38 IGNITION BODY ..... (10A)
F39 IGNITION ENGINE/FSCM ... (10A)
F40 AIRBAGS ..... (10A)
F41 SPARE
F42 RIGHT PARK LAMP..... (10A)
F43 LEFT PARK LAMP ..... (10A)

Relays:

R1 SPARE
R2 COMM ENABLE RELAY
R3 A/C CLUTCH COMPRESSOR RELAY
R4 BACK UP LAMPS RELAY
R5 FOG LAMP RELAY -FRONT
R6 HEADLAMP-LO BEAM RELAY
R7 HEADLAMP WASH RELAY
R8 RR DEFOG RELAY
R9 FRONT WIPER HIGH RELAY
R10 FRONT WIPER LOW RELAY
R11 HEADLAMP-HI BEAM RELAY
R12 CRANK RELAY
R13 POWER TRAIN RELAY
R14 IGNITION RELAY
R15 FRONT WASH RELAY
R16 HORN RELAY
R17 ENGINE COOLING FAN 1 RELAY
R18 PARK LAMPS RELAY
R19 ENGINE COOLING FAN 2 RELAY
R20 ENGINE COOLING FAN 3 RELAY
R21 VACUUM PUMP RELAY

Vehicle tools

Tools

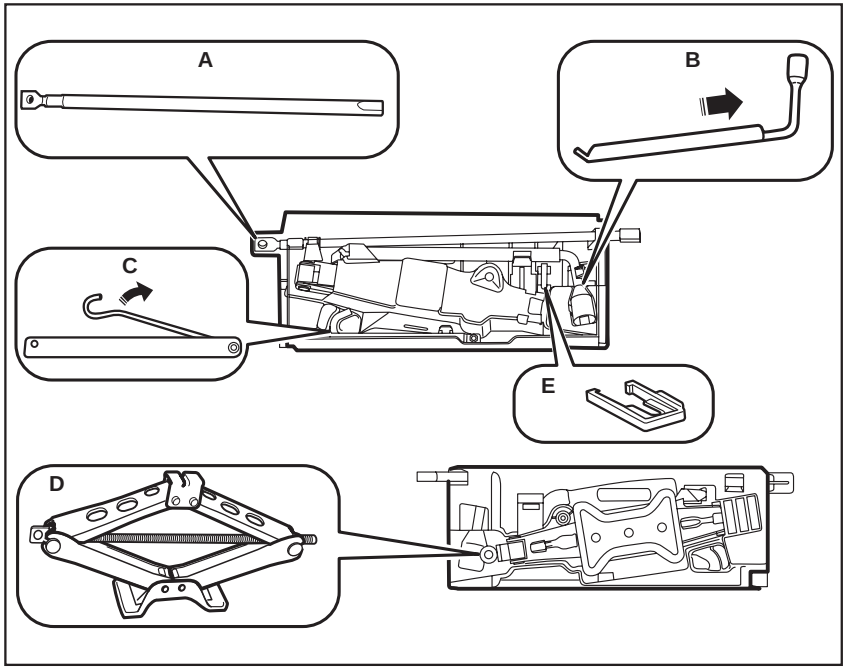


The jack and tools are located behind the driver seat.

The spare wheel is located beneath the load area.

Tyre repair kit

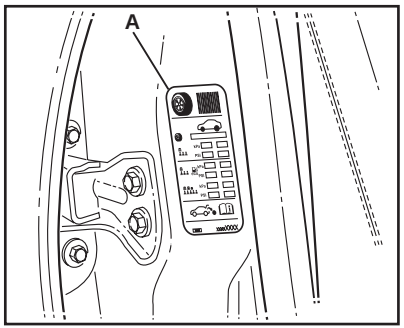
The vehicle may have an emergency tyre sealant and air compressor kit in place of the jack, tools and spare tyre. See Tyre sealant and air compressor kit on page 245.



A. Extension bar
B. Wheel wrench
C. Jack handle
D. Jack
E. Nut cap tool

Wheels and tyres

Tyre placard



The correct pressures for tyres are shown on the tyre placard (A) in the passenger's door opening (B pillar).

The front tyre pressures are shown in the left column and the rear tyre pressures are shown in the right column.

The placard may display the tyre size and pressures using the following icons:

: Tyre size, minimum load rating, minimum speed rating

: Tyre pressure at normal load

: Tyre pressure at maximum load

: Spare tyre pressures:

Full size spare, set to tyre pressure

Tyre pressure

Keep the tyres at the recommended pressures to avoid increased fuel consumption, uneven and premature tyre wear.

The correct pressures are shown on the tyre placard and in the tyre pressure table. See Tyre pressure on page 278.

- Tyre pressure should be checked when cold as tyre pressure will increase as the tyres warm up.
- Check the air pressure of tyres (including the spare) weekly, to ensure occupant safety, as well as reducing fuel consumption and increasing the life of the tyres.
- Check pressures when the vehicle has been stationary for over 3 hours. If tyre pressures must be checked immediately after driving more than 2 km, increase tyre placard pressure by 10 %.

- Use a tyre pressure gauge to check the tyres. Simply looking at the tyres is not sufficient.
- Replace any valve dust caps or extensions.
- Check the condition of the tyre tread and inspect for stones or abnormal wear.
- For constant long distance or rough road driving, daily checking is recommended.
- Tyre pressures may need to be increased depending on the load on the vehicle. See Axle loads on page 276.
- If the vehicle is loaded to half the maximum payload, the tyres should be inflated half way between the minimum and maximum pressures given on the tyre placard.

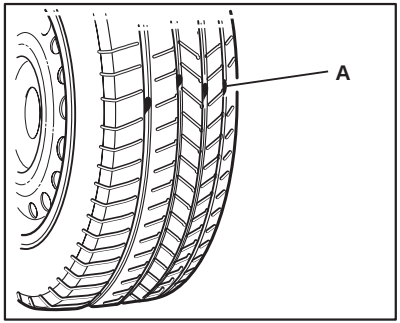
Low profile sports tyres

The vehicle may have low profile tyres.

Low profile tyres are expected to experience greater wear than conventional tyres, depending on driving conditions.

Follow the tyre care and maintenance instructions to maximise the life of the tyres.

Tread depth



Replace the tyres when:

- They are worn to the point where the tread indicators (A) appear.

  The tyres originally fitted to the vehicle have built-in tread indicators. When only 1.5 mm of tread remains, these indicators show as plain bars across the tread pattern at regular intervals around the tyre.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.

- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can not be repaired because of the size or location of the damage.
- The cord or fabric is showing.

⚠Warning

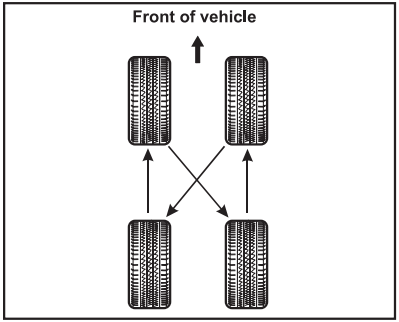
Do not attempt to drive on a flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded are not capable of being driven safely at high speeds. Therefore, their use is not recommended.

Tyre rotation

It is recommended that you:

- Rotate tyres approximately every year or 15,000 km, whichever occurs first.

  Driving conditions, driving techniques, vehicle loading and weather may warrant more frequent tyre checks and rotation.



Front and rear tyres can wear differently depending on:

- Types of roads driven on
- Driving habits
- Tyre pressures
- Wheel alignment and balance

New tyres should be fitted in pairs to the front. If replacing only one tyre, pair it on the same axle with the least worn of the other three.

Buying new tyres

Refer to the tyre placard on the vehicle for tyre size and load rating.

Using a different size or type of tyre may affect:

- Ride
- Handling
- Speedometer accuracy
- Vehicle ground clearance
- Tyre clearance
- Snow chain clearance

Tyres with heavy treads and those made for better grip in the wet, should only be operated within the limits recommended by the manufacturer.

Tyres with a higher speed or load rating are acceptable, provided they are fitted to a suitable rim size.

Replacing the factory fitted wheels and tyres with non-genuine wheels and tyres may affect the New Vehicle Warranty as well as the vehicle's insurance policy.

Contact a Holden Dealer for advice on suitable tyres.

Wheel alignment and tyre balance

Improper wheel alignment or balance can cause:

- Tyres to wear fast and unevenly
- The vehicle to pull to one side
- Vibration

If any of these problems exist, have the vehicle checked by a Holden Dealer.

Tyre condition is checked when the vehicle is serviced by a Holden Dealer. They are able to diagnose any unusual signs of wear. If tyres are rotated, it is recommended that balance be checked at the same time.

Tyre chains

Due to lack of clearance, tyre chains cannot be fitted to vehicles equipped with the following wheel and tyre configurations:

- 245/45R18 18 x 8
- 245/40R19 19 x 8

If these vehicles need to be driven in the snow, consider changing to the following wheel and tyre configuration:

- 225/60R16 16 x 7 (suitable for V6 vehicles only)

Tyre chains should be fitted only on the rear wheels.

Remove large hub caps and valve extensions that contact parts of the chain.

⚠Warning

Tyre chains may only be used at speeds up to 50 km/h. Tyre chains should only be used for short distances if the roads are not snow covered. The hard road surface causes rapid wear and the chain may break. Tyre chain links should not be thicker than 13 mm and the clasp should be well away from the bodywork. Thicker chains may damage the vehicle body.

Check the tyre placard for correct tyre pressures. See Tyre placard on page 241.

Whenever tyre chains are fitted, switch off the ESP®. See Electronic Stability Program (ESP®) on page 184.

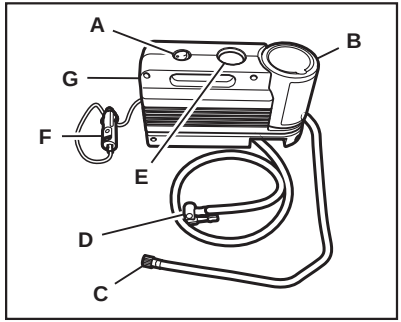
Tyre sealant and air compressor kit

The vehicle may have an emergency tyre sealant and air compressor kit, in place of the jack, tools and spare tyre.

The tyre sealant and air compressor kit can be used to temporarily seal a small puncture up to 6 mm in the tread area of the tyre. It can also be used to inflate an underinflated tyre.

The vehicle must be driven for 8 km after the tyre is sealed and inflated to the recommended pressure, to ensure the sealant is distributed evenly.

Take the vehicle to a Holden Dealer to have the tyre repaired or replaced as soon as possible.



The kit includes:

A. On/off switch
B. Tyre sealant canister
C. Sealant-air delivery hose
D. Air-only delivery hose
E. Pressure gauge
F. 12 volt power connection
G. Air compressor

Tyre sealant

The sealant cannot seal sidewall damage, large punctures, or a tyre that has unseated from the wheel.

Follow the safety instructions on the tyre sealant canister.

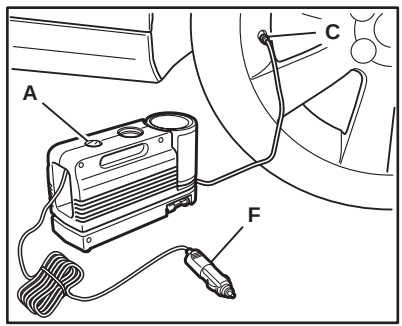
Check the expiry date on the tyre sealant canister before use. The tyre sealant canister must be replaced before its expiry date.

There is only enough sealant to seal one tyre.

After usage, the tyre sealant canister and sealant-air delivery hose must be replaced as an assembly.

Replacement tyre sealant canisters are available from a Holden Dealer.

Temporary puncture repair



1. Passengers must exit the vehicle.
2. Inspect the damaged tyre.

   Do not remove any objects that have penetrated the tyre.
3. Unwrap the sealant-air delivery hose (C) from the side of the compressor.
4. Remove the 12 volt power connection (F) from the kit.

   Do not connect to the power socket yet.
5. Unscrew the tyre valve cap anticlockwise and remove.
6. Attach the sealant-air delivery hose (C) onto the tyre valve. Rotate it clockwise until tight.
7. Switch the on/off switch (A) to the **O** position.
8. Plug the 12 volt power connection into the vehicle power socket. See Power outlets on page 62.

   Do not jam the 12 volt power connection cable in the door or window.
9. Start the engine and let it idle to ensure the battery does not run down.

⚠Warning

Do not run the engine in an enclosed area or with passengers in the vehicle. See page 189 for exhaust gas warnings.

10. Switch the on/off switch (A) to the **I** position.

    The kit will begin to inject sealant and air into the tyre.

    Sealant may leak from the puncture hole until the vehicle is driven and the hole has sealed.
11. Check the air pressure gauge (E).

    If there is no pressure reading while the compressor is running, check for leaks at the connection between the tyre valve and the sealant-air delivery hose (C).
12. Inflate the tyre to the inflation pressure on the tyre placard. See Tyre placard on page 241.

    The pressure gauge (E) will initially read high while the compressor injects the sealant into the tyre. Once the sealant injection is complete, the pressure will quickly drop. It will start to rise again as the tyre inflates with air.

⚠Warning

Do not over inflate tyres due to risk of injury or damage to the tyre. Refer to the tyre placard for recommended inflation pressure.

13. Switch the compressor off to get an accurate reading.

    The pressure gauge (E) reads slightly high while the compressor is on.

    The compressor may be switched on and off until the correct pressure is reached.

14. Switch the on/off switch (A) to the **O** position.

    Note
    The tyre is not sealed and will continue to leak air until the vehicle is driven and the sealant is distributed in the tyre.

⚠Warning

If the recommended pressure cannot be reached after approximately 15 minutes, the vehicle should not be driven. The tyre is too severely damaged and the tyre sealant and air compressor kit cannot inflate the tyre. Disconnect and stow the tyre sealant and air compressor kit back in its original position. Contact a Holden Dealer.

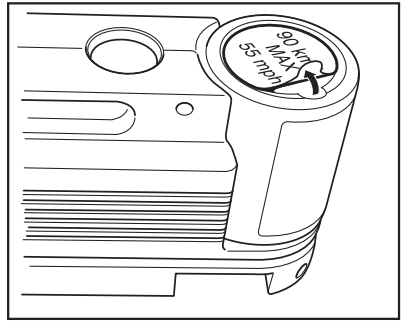
⚠Warning

Be careful when handling the tyre sealant and air compressor kit as they may be hot after usage.

15. Unplug the 12 volt power connection (F) from the power socket.
16. Rotate the sealant-air delivery hose (C) anticlockwise and remove.
17. Replace the tyre valve cap.
18. Place the tyre sealant and air compressor kit back behind the driver seat.

⚠Warning

Always stow the tyre sealant and air compressor kit in its original position. Unsecured loads increase the risk of injury during heavy braking, sudden avoidance manoeuvres or a collision.



19. After inflating the tyre, remove the maximum speed label and place it in a visible location.

    It reminds you to drive cautiously and not to exceed 90 km/h until the damaged tyre is replaced or repaired.
20. Drive the vehicle immediately for at least 8 km to distribute the sealant evenly within the tyre.
21. Stop at a safe location to check the tyre pressure. To inflate tyres without sealant, see page 248.

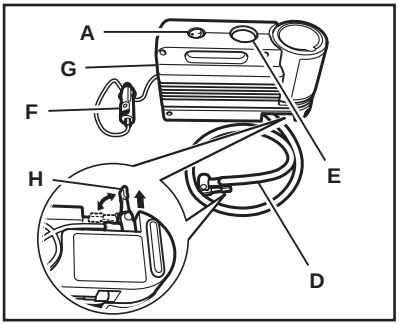
22. If the tyre pressure has fallen more than 10 psi (68 kPa), below the recommended inflation pressure, do not continue driving. Contact a Holden Dealer.

    If the tyre pressure has dropped less than 10 psi (68 kPa), inflate to the recommended inflation pressure.

23. Wipe off any sealant from the wheel, tyre or vehicle.
24. Dispose of the used tyre sealant canister at a Holden Dealer or in accordance with local and State codes and practices. Replace with a new canister.

This is a temporary puncture repair. Take the vehicle to a Holden Dealer to have the tyre repaired or replaced as soon as possible.

Inflating tyres without sealant



A. On/off switch
D. Air-only delivery hose
E. Pressure gauge
F. 12 volt power connection
G. Air compressor
H. Lever

1. Lift the lever (H) and pull the air-only delivery hose (D) from the bottom of the kit.
2. Remove the tyre valve cap by rotating it anticlockwise.
3. Push the air-only delivery hose (D) onto the tyre valve and push the lever (H) down to secure.
4. Plug the 12 volt power connection (F) into the vehicles power socket. See Power outlets on page 62.

   Do not jam the 12 volt power connection cable in the door or window.

5. Start the engine and let it idle to ensure the battery does not run down.

⚠Warning

Do not run the engine in an enclosed area or with passengers in the vehicle. See page 189 for exhaust gas warnings.

6. Switch the on/off switch (A) to the **I** position.

⚠Warning

Do not over inflate tyres due to risk of injury or damage to the tyre. Refer to the tyre placard for recommended inflation pressure.

7. Check the pressure gauge (E).

   If there is no pressure reading while the compressor is running, check for leaks at the connection between the hose and the tyre valve.

8. Inflate the tyre to the recommended inflation pressure using the air pressure gauge (E).

   The pressure gauge (E) reads slightly high while the compressor is on.

9. Switch the compressor off to get an accurate reading.

   The compressor may be switched on and off until the correct pressure is reached.

10. Switch the on/off switch (A) to the **O** position.

⚠Warning

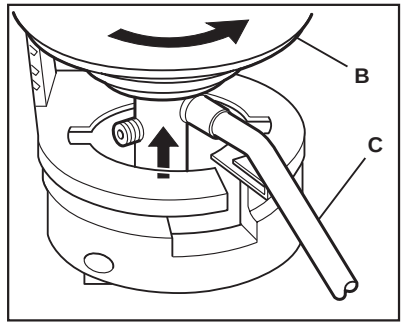
Be careful when handling the tyre sealant and air compressor kit as they may be hot after usage.

11. Disconnect the 12 volt power connection (F) and the air-only delivery hose (D).
12. Replace the tyre valve cap.
13. Place the tyre sealant and air compressor kit back behind the driver seat.

⚠Warning

Always stow the tyre sealant and air compressor kit in its original position. Unsecured loads increase the risk of injury during heavy braking, sudden avoidance manoeuvres or a collision.

Replacing the tyre sealant canister



After a temporary puncture repair, replace the tyre sealant canister.

To remove the canister:

1. Unlock the air-only delivery hose (D) from the tyre sealant canister by pulling up on the lever (H).
2. Pull the air-only delivery hose (D) from the tyre sealant canister.
3. Unwrap the sealant-air delivery hose (C) from the air compressor (G).

4. Rotate the tyre sealant canister (B) anticlockwise so the sealant-air delivery hose (C) is aligned with the slot in the compressor.
5. Lift the tyre sealant canister (B) from the compressor and replace with a new tyre sealant canister, available from a Holden Dealer.
6. Dispose of the tyre sealant canister at a Holden Dealer or in accordance with local or State codes and practices.

To install a new tyre sealant canister:

1. Align the sealant-air delivery hose (C) with the slot in the compressor.
2. Push the tyre sealant canister (B) down and rotate it clockwise.
3. Wrap the sealant-air delivery hose (C) around the compressor channel.
4. Push the air-only delivery hose (D) onto the tyre sealant canister (B) inlet.
5. Push the lever (H) down.

Tyre changing

⚠Warning

Passengers must be out of the vehicle when it is being jacked.

Do not jack a vehicle with a trailer attached. Remove the trailer first.

Only jack the vehicle on hard, level surfaces.

Ensure moving parts of the jack are adequately lubricated before use.

Use the jack only at the designated lifting points. Use in other locations may result in the vehicle falling off the jack, or damage to the vehicle.

If using a jack (or hoist) other than the jack supplied with the vehicle, see page 258.

Do not start or run the engine while the vehicle is supported by the jack.

Use the jack only for lifting the vehicle when changing wheels.

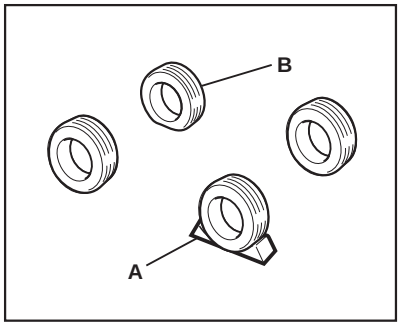
Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

Vehicles with alloy wheels may have a steel spare wheel. Drive carefully and do not exceed 80 km/h if the tyre size or tread pattern of the spare tyre is different to the other tyres on the vehicle. Although the spare tyre was fully inflated when the vehicle was new, it can lose air over time. Check the inflation pressure regularly.

After installing the spare tyre on the vehicle, stop as soon as possible to check the inflation pressure is correct. Have the flat tyre repaired or replaced and installed back on the vehicle as soon as possible.

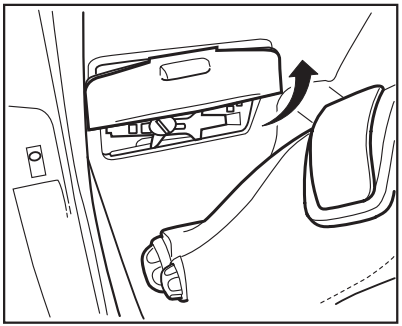
Removing the spare tyre

1. Park on a hard, level surface, in a safe location.
2. Apply the park brake firmly.
3. Switch the hazard warning flashers on.
4. Remove the ignition key.
5. Place manual transmissions in reverse gear and automatic transmissions in **P**.

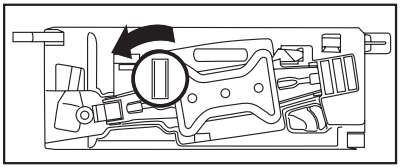


6. Chock the wheel diagonally (A) opposite the flat tyre (B) with a suitable solid object.

Spare wheel access

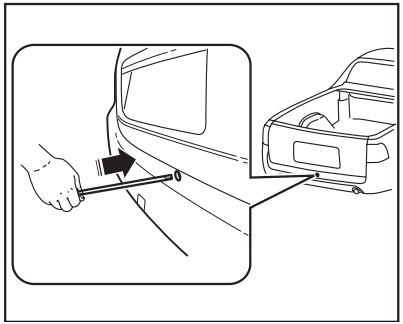


7. To access the jack and tools, move and tilt the driver seat forward.
8. Lift up the access flap.



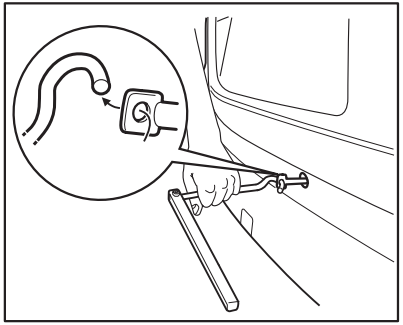
9. To remove the tool container, undo and remove the retaining nut.
10. Slide the jack package off the bolt and place next to the wheel to be changed.
11. Remove the jack handle, extension bar, wheel wrench and jack from the container. See Vehicle tools on page 240.

    If the vehicle is equipped with nut caps, remove the nut cap tool.

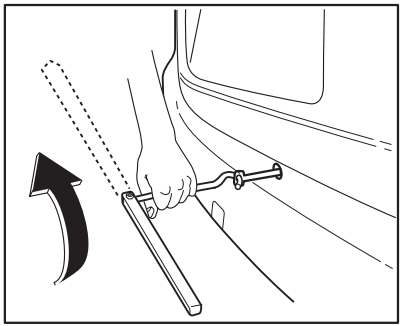


12. Insert the extension bar into the spare wheel lowering slot.
13. Twist the bar back and forth to engage into the carrier.

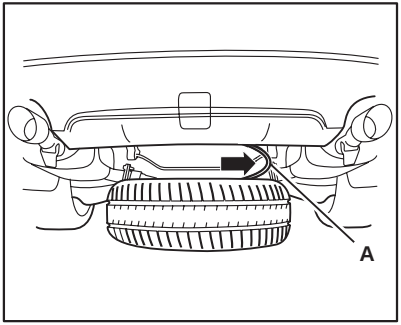
Note
Do not lower the tailgate while the extension bar is in place.



14. Attach the hook end of the jack handle to the extension bar.



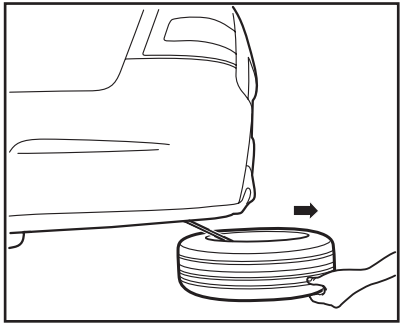
15. Wind the jack handle/extension bar anticlockwise until it stops.



16. Ensure the spare wheel carrier is completely wound down and that the securing cable (A) has freeplay.

Note
If the spare wheel does not lower, see Spare wheel carrier troubleshooting on page 259.

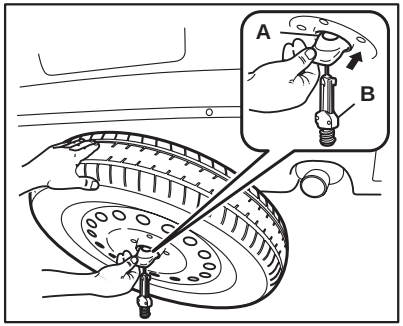
17. Remove the jack handle and extension bar from the vehicle, once lowering is finished.



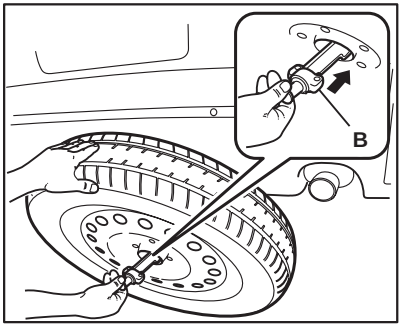
18. From behind the vehicle, grasp the spare wheel and pull it out towards the rear.

Note
If the spare wheel cannot be manoeuvred to the position shown above, repeat Steps 15 and 16.

⚠Warning
Do not get under the vehicle.



19. Hold the spare wheel up on an angle, while with the other hand, slide component (A) up the cable and thread it through the centre of the wheel.



20. Thread component (B) of the securing cable through the centre of the wheel.
21. Place the spare wheel next to the wheel with the flat tyre.

Note
If the Spare wheel carrier troubleshooting procedure on page 259, was used to lower the spare wheel, the carrier assembly must be inspected and repaired by a Holden Dealer.

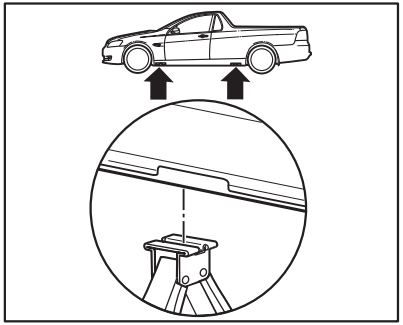
22. Wheel nut removal:

If the wheel trim covers the wheel nuts, remove as follows:

- If a full wheel cover is fitted, lever it off with the end of the wheel wrench.
- If a centre cap is fitted that covers the wheel nuts, remove it using the end of the wheel wrench. If the centre cap is secured using the wheel nuts, it will be removed as the wheel nuts are removed in Step 31.
- If individual wheel nut caps are fitted, remove each nut cap individually using the nut cap tool provided. Insert the nut cap tool into the nut cavity. Squeeze the tool to grasp the nut cap and pull outwards. Avoid getting dirt inside the caps.

23. Using the extended wheel nut wrench, loosen the wheel nuts in an anticlockwise direction, one half to a full turn, but do not remove the wheel nuts.

Note
The wheel nut wrench must be extended before use to ensure the correct amount of torque can be applied.



24. Position the jack beneath the jack location closest to the wheel being changed.

    There are four jack locations for use with the emergency jack, identified by cutouts in the underside of the door sill.

    The jack must not be used in any other positions.

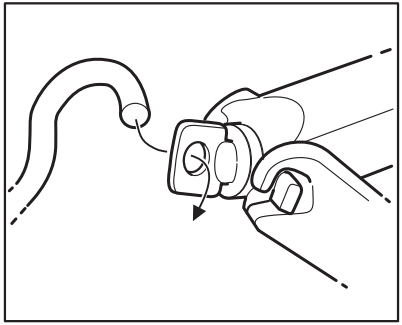
25. Wind the jack up by hand until it engages with the jacking point.

    Ensure that the jack is not tilted and the base is resting squarely on the ground.

⚠Warning

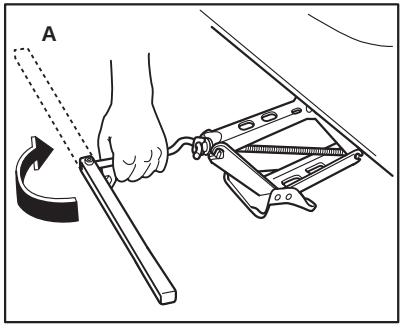
Failure to position the jack as described above could cause the vehicle to slip off the jack.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

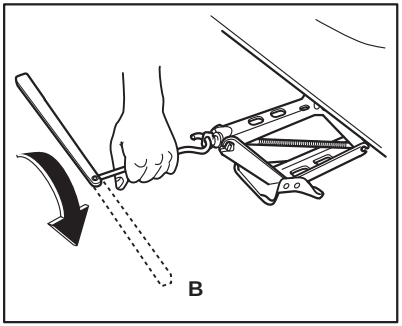


26. Fit the jack handle onto the jack by sliding the hook through the loop on the end of the jack.

Note
The jack handle must be unfolded into a right angle before it is used.



27. Grasp the hooked fold out section with one hand as shown.
28. With the other hand, turn the handle 180 degrees until it reaches position (A).

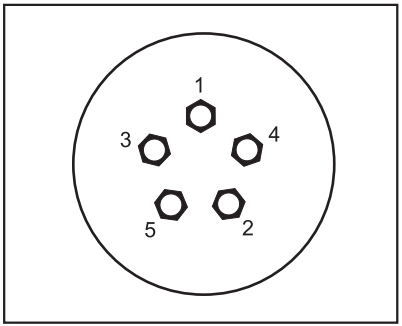


29. Turn the handle clockwise from position (A) to position (B).
30. Repeat the previous two steps until the bottom of the flat tyre is about 5 cm above the ground.
31. Remove the wheel nuts.
32. Remove any dirt or rust from the wheel nuts and studs, mounting surfaces and spare wheel.
33. Exchange the wheel on the vehicle with the spare wheel.
34. Replace the wheel nuts and lightly tighten with the wheel nut wrench.

Note
Ensure the centre cap is assembled along with the wheel nuts, if secured by them.

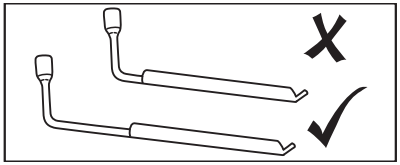
35. Lower the vehicle by reversing the jacking procedure.
36. Remove the jack from under the vehicle.

Wheel nut tightening sequence



37. With the wheel on the ground, use the extended wheel nut wrench to tighten the wheel nuts in the sequence shown.

Note
Incorrect tightening of the wheel nuts can lead to brake pulsation and disc rotor damage. Tighten the wheel nuts in the proper sequence and to the proper torque specification. See Warning on page 257.



⚠Warning

To tighten the wheel nuts, the wrench must be extended fully.

38. Replace any wheel trim or nut cap that was covering the wheel or wheel nuts.

Note
If a full wheel trim is fitted, the tyre valve must line up with the hole in the wheel trim before refitting. Ensure the wheel trim clip-in legs are correctly retained in their groove.

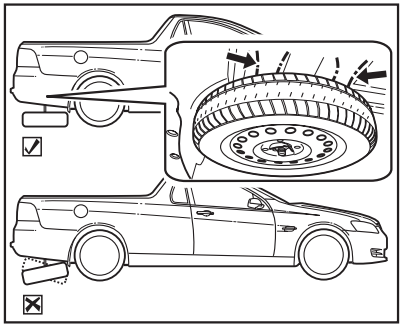
39. Before storing the wheel, remove any wheel cover or centre cap. Place the wheel face down as shown in Step 18.
40. Hold the wheel up on an angle as in Step 19, while with the other hand thread component (B) of the securing cable through the centre of the wheel.
41. Thread component (A) of the securing cable through the centre of the wheel.
42. Allow component (A) to sit over component (B) and seat correctly in the centre hole of the wheel.
43. With the securing cable in position, push the wheel under the rear of the vehicle.

⚠Warning

Do not get under the vehicle.

Note
Do not drag the face of the wheel across the ground.

44. Insert the extension bar into the spare wheel lowering slot.
45. Twist the bar back and forth to engage into the carrier.
46. Attach the hook end of the jack handle to the extension bar.
47. Wind the jack handle/extension bar clockwise to raise the wheel.
48. During the raising procedure continue to ensure that the wheel is positioned centrally and horizontally on the securing cable.



49. Raise the wheel until the wheel is flush against the underbody supports, as shown.

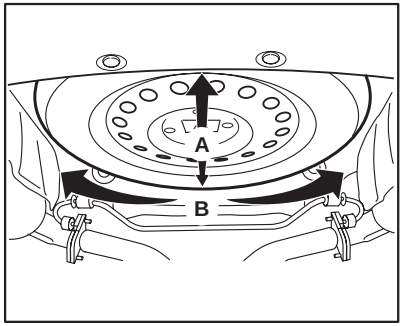
50. Continue turning the jack handle clockwise until you hear two clicks or feel it skip twice.

    This indicates that the wheel is secure and the cable is tight.

51. If the wheel is not flush against the underbody supports, lower the wheel and repeat from Step 47 onwards.

Note

The spare wheel carrier cannot be over tightened.



52. Make sure the wheel is stored securely.

    Check the security by pushing and pulling (A) then try to turn (B) the wheel, as shown.

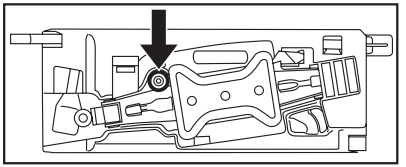
    If the wheel moves, use the extension bar and jack handle to tighten the wheel carrier, repeating Step 44 to 51.

Note

An alloy wheel with a flat tyre should always be stored under the vehicle using the spare wheel carrier.

However, storing it that way for an extended period could damage the wheel. Always store the wheel properly with the valve stem pointing down and have the wheel repaired or replaced and installed back on the vehicle as soon as possible.

53. Remove the jack handle and extension bar from the lowering slot.



54. Replace the tools behind the driver seat.

    Ensure that the jack package is positioned onto the mounting bolt so that the retaining nut covers the top left corner of the jack as shown.

⚠Warning

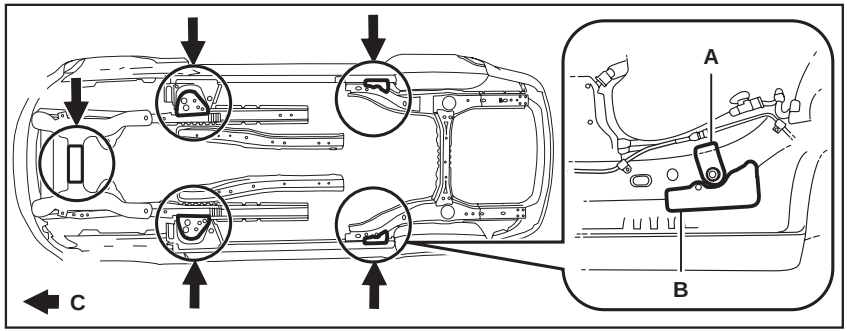
As soon as possible after changing a wheel, have the wheel nuts tightened with a torque wrench to 170 ± 20 Nm (Newton metres). Wheel nuts must be tightened evenly to the correct torque in the sequence shown (refer to Step 37), as wheel nuts which have not been tightened properly could eventually allow

the wheel to come off while the vehicle is moving.

Always have the flat tyre repaired or replaced and installed back on the vehicle as soon as possible.

The underbody mounted spare wheel needs to be stored with the valve stem pointing downwards. Its secondary latch will not work properly and the spare wheel could loosen and suddenly fall from the vehicle. If this happened when the vehicle was being driven, the wheel might contact a person or other vehicle, causing injury and, of course, damage to itself as well. Be sure the underbody mounted spare wheel is stored with its valve stem pointing downwards.

Trolley jack or vehicle hoist



View from under the vehicle

C. Front of vehicle

If using a trolley jack or vehicle hoist to raise the vehicle, it is important that the jack be positioned under the centre of the suspension cross member or hoist pad locations, as shown.

⚠Warning

Do not jack under the suspension control arms. Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

Note
Always use the jack locations shown in Step 24 of the previous section when using the original jack supplied with the vehicle.

This jack has been designed to correctly and safely lift the vehicle, provided the warnings are observed.

⚠Warning

On vehicles fitted with dual fuel LPG systems, do not allow any part of the lifting equipment to contact area (A). Only allow lifting equipment to contact area (B). Refer to the illustration.

Spare wheel carrier troubleshooting

This vehicle has an underbody-mounted wheel carrier assembly, equipped with a secondary latch system. It is designed to stop the spare wheel from suddenly falling off the vehicle if the cable holding the spare wheel is damaged.

⚠Warning

For the secondary latch to work, the tyre must be stored with the valve stem pointing down.

Always have the flat tyre repaired or replaced and installed back on the vehicle as soon as possible.

Before beginning this procedure read all the instructions. Failure to read and follow the instructions could damage the carrier assembly and you and others could be injured. Follow the instructions listed below.

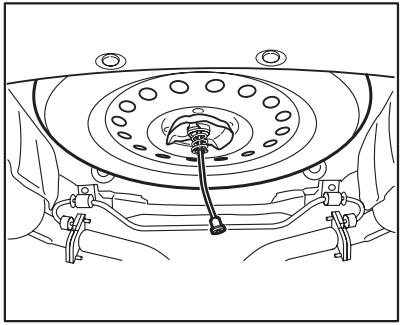
Someone standing too close during the procedure could be injured by the jack. If the spare wheel does not slide off the jack completely, make sure no one is behind you or on either side of you as you pull the jack out from the under spare wheel.

Secondary latch release procedure

⚠Warning

The secondary latch release procedure should only be attempted on flat, stable, level ground.

Ensure the park brake is set firmly and at least one wheel is chocked. See Removing the spare tyre on page 251.



1. Check under the rear of the vehicle to see if the cable is visible as shown.

   If the cable is not visible proceed to Step 5.

2. If the cable is visible, tighten the cable by turning the extension bar/jack handle clockwise until you hear two clicks or feel it skip twice.

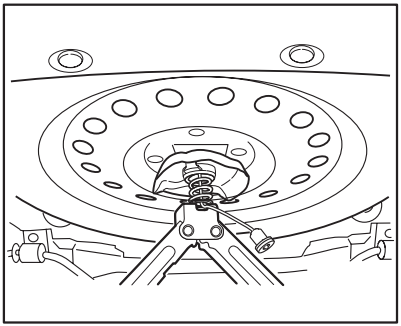
Note
It cannot be over tightened.

3. Lower the spare wheel by turning the extension bar/jack handle anticlockwise three or four turns.
4. Repeat Steps 2 and 3 at least two times.

Note
If the spare wheel lowers to the ground, go to Step 15, Spare wheel access on page 251.

5. Turn the extension bar/jack handle anticlockwise until approximately 15 cm of cable is exposed.

Note
If the cable does not move or appears to be missing, proceed to Step 6.



6. Attach the jack handle to the jack and position the jack lift head under the centre of the wheel, as shown.
7. Wind the jack up, by turning the jack handle clockwise, until it contacts the end of the securing cable assembly.
8. Continue raising the jack until the spare wheel stops moving upward and is held firmly in place.

   The secondary latch has now released and the spare wheel should now be balancing on the jack.

⚠Warning

Do not continue to raise the jack once the spare wheel has stopped moving as this may cause the rear of the vehicle to lift off the ground and therefore become unstable.

9. Lower the jack slowly by turning the jack handle anticlockwise.
10. Keep lowering the jack until the wheel lowers completely to the ground or is hanging from the cable.

⚠Warning

While the spare wheel is lowering continue to ensure that the wheel lowers horizontally.

Please be aware that in some cases the wheel may lower on an angle or detach itself from the jack lift head; if either occurs proceed with caution.

11. Disconnect the jack handle from the jack and carefully remove the jack.

    Use one hand to push against the spare wheel, while firmly pulling the jack out from under the spare wheel with the other hand.
12. If the spare wheel is hanging from the securing cable, go to Step 15, Spare wheel access on page 251, then proceed with the rest of the tyre changing instructions.

Caution

If driving away before the securing cable has been wound up the vehicle could be damaged.

13. Wind the extension bar/jack handle clockwise to raise the cable back up if the cable is hanging under the vehicle.

⚠Warning

If any of the above spare wheel carrier troubleshooting events occur, do not use the spare wheel carrier to hold a wheel until the assembly has been inspected by a Holden Dealer.

Jump starting

Read the following warnings and procedure in full before attempting to jump start the vehicle.

If you are still unsure about jump starting, Holden strongly recommends for your safety and that of the vehicle that you seek the assistance of a suitably trained service technician.

⚠Warning

Do not push start or tow start either a manual or an automatic vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, jump start, but do not push start the vehicle.

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, adhere to the following when working near a battery:

- Do not attempt jump starting directly from the battery.
- Do not let the jumper lead clamps touch each other or other metal parts.
- Do not allow the jumper leads to contact any rotating engine components.
- Do not use open flames or sparks near the battery.
- Do not smoke near the battery.
- Never use a quick charger to start the engine.
- The battery must be removed from the vehicle for recharging.
- When refitting the battery make sure the vent tube is correctly installed.
- Only use the recommended battery otherwise the electric power management system may not work correctly. Refer to a Holden Dealer for battery replacement.
- Wear eye protection such as safety glasses and avoid leaning over the battery.
- Battery acid is corrosive. If it gets on your skin, wash with plenty of water immediately. If it gets in your eyes you should not only flush with lots of water, but should also seek medical help. Battery acid also damages paint and fabrics. To minimise damage, wash it off immediately.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- If a permanently connected hands free telephone kit is fitted to the vehicle, remove the fuse for the telephone kit before jump starting. Remember to replace the fuse afterwards.

Jump starting connection posts

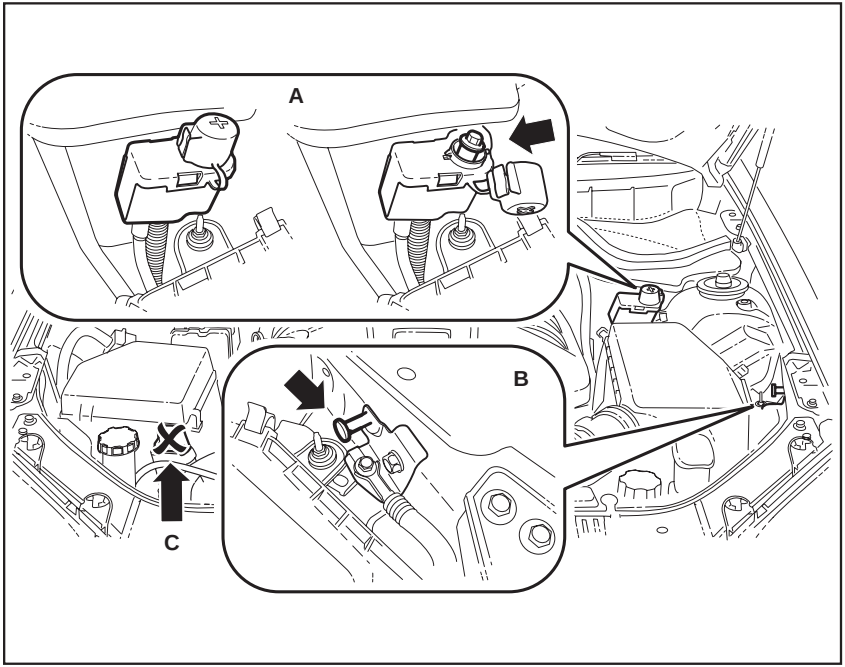
The jump start positive (A) and negative (B) posts are located in the engine bay on the passenger side.

These posts are used instead of a direct connection to a battery.

The positive jump start connection is covered by a red cap.

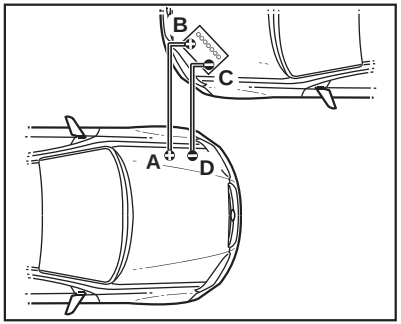
1. Push the clip to release the top.
2. Remove to expose the terminal.

Caution
Do not make any connections at point (C) as costly damage to the vehicle could result.



Jump starting procedure

Note
The battery in both vehicles must have a negative earth and a 12 volt rating.



1. Position the two vehicles so that they are NOT touching.
2. Apply the park brakes.
3. Put automatic transmissions in **P** and manual transmissions in neutral.
4. Turn the ignition off.
5. Turn off all lamps and accessories in both vehicles, except the hazard warning flashers or any lights needed for the work area.
6. Attach one end of the RED jumper lead to the jump start positive post (A).
7. Attach the other end of the RED jumper lead to the positive terminal (B) of the charged battery.
8. Attach one end of the BLACK jumper lead to the negative terminal (C) of the charged battery.
9. Attach the other end of the BLACK jumper lead to the jump start negative post (D).
10. Start the engine in the vehicle with the charged battery and allow to idle for at least 4 minutes.
11. Start the engine of the vehicle with the flat battery.
12. Turn off the headlamps, rear demister, air conditioning and audio system of the vehicle with the flat battery.
13. Allow both vehicles to run for at least 4 minutes while connected, to stabilise battery voltage.
14. Leave the engines running while removing the BLACK negative jumper lead first, followed by the RED positive jumper lead.

Note

- Refit the red protective cap to the positive jump start post following removal of the jump leads.
- While removing each clamp, do not touch any other metal while the other end remains attached.

Towing a disabled vehicle

⚠Warning

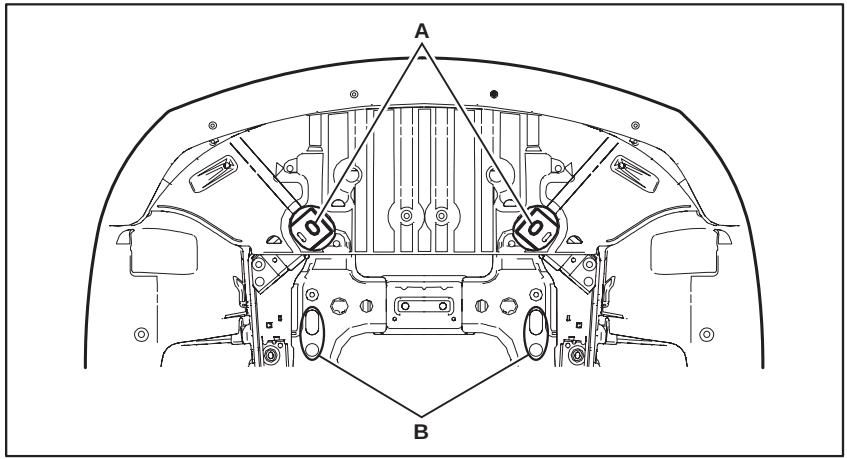
Flat tray towing is the only recommended towing procedure.

A slot and rope location is provided to move a bogged or disabled vehicle a short distance or to pull the vehicle onto a flat tray tow truck.

Use only wheel lashings to secure the vehicle to the flat tray tow truck.

Do not attach towing equipment to the bumpers or brackets, suspension or cross members.

To prevent damage, use only proper towing equipment.



Attachment locations

An oval shaped slot (A) is provided underneath the front of the vehicle.

Access to the slot is via the circular hole in the black plastic splash shield underneath the front of the vehicle.

A hook of the appropriate size, attached to the cable, should be used in the slot.

A rope cannot be threaded through the slot.

A rope can be looped through the holes at the rope location (B).

Appearance care

Exterior care

Washing

The paintwork of the vehicle is exposed to environmental influences. Wash and wax regularly. When using automatic vehicle washes, select a programme that includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage. Failure to do so may result in permanent damage, particularly in hot weather conditions.

Road bloom is a gradual build up of road and environmental grime. This should be removed with a paint cleaner once a year, in addition to normal washing.

If using a vehicle wash, comply with the vehicle wash manufacturer's instructions. Never use an automatic wash that requires anything touching the paint (other than water). The wipers must be switched off. Remove antenna and external accessories such as roof racks etc.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet as well as the areas they cover.

Have the door hinges of all doors greased by a Holden Dealer.

Caution

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and chamois off the vehicle. Rinse chamois frequently. Use separate chamois for painted and glass surfaces: remnants of wax on the windows will impair vision.

Do not use hard objects to remove spots of tar. Use tar removal spray on painted surfaces.

Note

For certain body colours, some variation in gloss and colour may exist in the engine bay or load area and on the underside of the vehicle.

⚠Warning

Take care when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Exterior lamps

Headlamp and other lamp covers are made of plastic. Do not use any abrasive, solvent based cleaners or caustic agents and do not dry-clean them.

Air intakes

Clear debris from the air intakes, between the bonnet and windscreen and below the front bumper, when washing the vehicle.

Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads).

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

- Never use abrasive cleaners to clean glass.
- Refer to a Holden Dealer for windscreen washer additive.
- Old wiper blades can cause windscreen scratching. Regularly inspect and replace them.

Caution

Do not operate the wiper blades by hand as this damages the wiper drive mechanism.

When cleaning the rear window, make sure the heating element inside is not damaged.

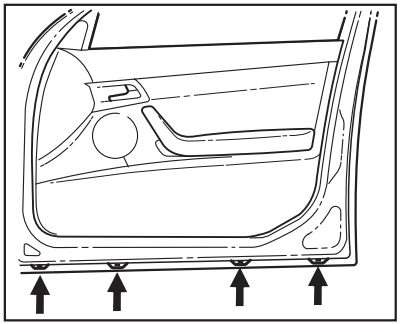
Clean smearing wiper blades with a soft cloth and window cleaner.

Wheels and tyres

Do not use high-pressure jet cleaners.

- Remove oil and grease with soap and water or detergent.
- Do not use petrol to clean tyres.
- Use a good quality tyre and bumper shine if required.
- A good quality wheel cleaner can be used for cleaning alloy wheels.
- Do not use abrasive cleaners.

Door drain holes



- Clear drain holes at the bottom of the door panels from dirt and other foreign materials which could trap water inside the panels.
- Clean clogged drain holes with a plastic pin or peg.
- Avoid scratching the paint work.

Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms.

Have more extensive damage or rust areas repaired by your Holden Dealer.

Caution

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paint work. If you do, wash it off immediately.

Underbody

Substances can cause rust under the vehicle.

- Hose the underbody with clean water whenever the vehicle is washed.
- Where the vehicle is exposed to heavy concentrations of corrosive materials, inspect and wash the complete underbody at least once each year, preferably after winter exposure.

Interior care

⚠Warning

Many cleaning products are toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Ensure that the vehicle is well ventilated while using any cleaners and always follow the cleaning product manufacturer's recommendations. Water based cleaners, rather than solvent based cleaners, are recommended.

Steam cleaning of seats is not recommended.

Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

The instrument panel should only be cleaned using a soft damp cloth.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clean seat belts with a mild, non-abrasive soap and lukewarm water.

After washing, thoroughly, sponge the solution out of the belts.

Leather

Clean regularly using a leather revitaliser or mild detergent.

- Apply revitaliser using a lint free cloth and rub it onto the leather.
- Do not saturate the leather with the cleaner and do not pour on directly.
- Allow to dry naturally.
- For deeply embedded soil and dirt, use a leather cleaner.
- After using a leather cleaner/ revitaliser, apply a leather protector.

  A leather protector is designed to repel dirt and provides water resistance.

Note

- Clean and protect leather at least twice a year.
- Do not use synthetic cloths or brushes.

Caution
Close Velcro fasteners as open Velcro fasteners on clothing could damage seat upholstery.

Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner as used to clean the body. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high pressure jet cleaners.

Floor mats

- Pull up the small peg at the corner to remove the mat.
- Push the mat down onto the peg to replace.

Service and maintenance

General information 270
Recommended fluids, lubricants and parts 271

General information

Service information

In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified.

See your Service/Warranty Booklet for the service schedules and for more information.

Recommended fluids, lubricants and parts

Engine type	3.6L multipoint fuel injection V6	3.6L (SIDI) direct injection V6	3.0L (SIDI) direct injection V6	Generation IV V8
Engine oil specification	SAE 5W-30 ILSAC GF4; API SM			
Coolant specification	50% clean fresh water and 50% Dexcool® anti-freeze coolant, conforming to specification number GM6277M			
Automatic transmission fluid	Dexron® VI			
Manual transmission fluid	SAE 75W-90 GL5 conforming to Esso specification number JWS2250C			Holden part number 12378329
Differential oil	Castrol SAF Carbon Modified SAE 75W/85 API GL5 GM			
Brake and clutch fluid	Heavy duty brake fluid, Dot 4 plus, SAE J1704 or conforming to Holden specification number HN 2456			
Power steering fluid	Dexron® VI			
Battery	Maintenance free 12 V, with ventilation system. LN2 460 cold cranking amps (CCA), 85 minutes reserve capacity. The vehicle may have an LN3 battery. LN3 600 cold cranking amps (CCA), 120 minutes reserve capacity.			

⚠Warning

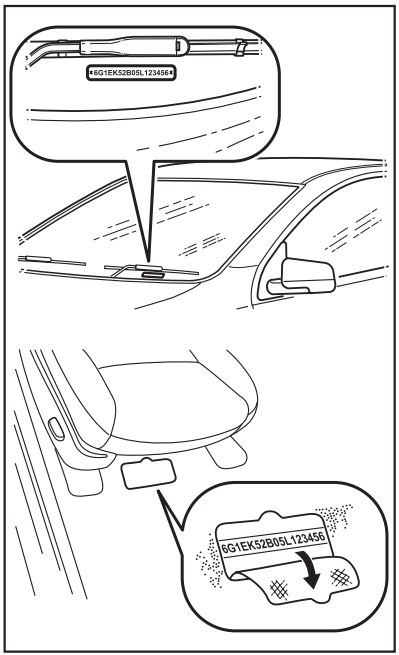
Use only a manufacturer recommended battery with a ventilation system. Use of other batteries may affect the electric power management system and allow explosive gases into the vehicle cabin. Refer to a Holden Dealer or authorised repairer.

Technical data

Vehicle identification 272
Vehicle data 275

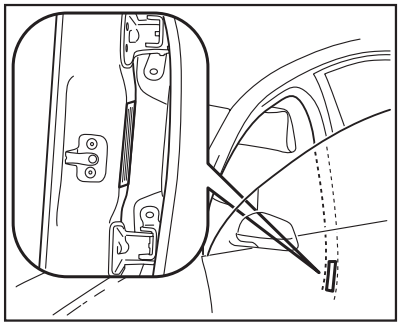
Vehicle identification

ISOVIN plates

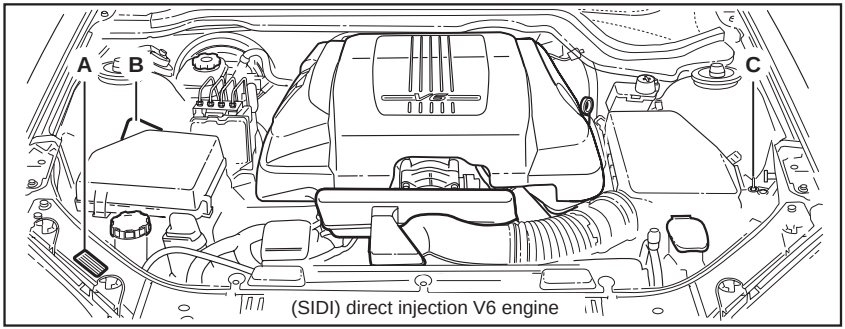


Each vehicle has its own, individual International Standards Organisation Vehicle Identification Number (ISOVIN), which is shown behind the windscreen on the left side and under the right seat, under a carpet flap.

Compliance label



This label shows the vehicle make, model series, date of manufacture, Vehicle Identification Number (VIN), approved seating capacity and approval number.



(SIDI) direct injection V6 engine

Cooling system/ air conditioning label

Label (A) shows the warnings for the air conditioning and cooling system as well as information on the air conditioning refrigerant and compressor oil.

LPG compliance plate

The vehicle may have an LPG compliance plate.

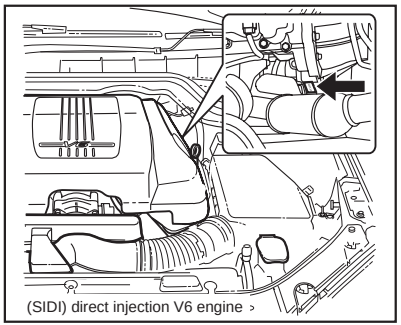
The plate (B) shows the installation date, plate number, permit number, certificate of compliance number, cylinder (LPG tank) number, Vehicle Identification Number (VIN) and engine number.

Body and option plate

Plate (C) shows the model identification, Vehicle Identification Number (VIN), paint and trim colour combination, air conditioning, paint number, engine, transmission, axle ratio options, suspension options (where applicable) and build date.

Engine number location

V6 engine

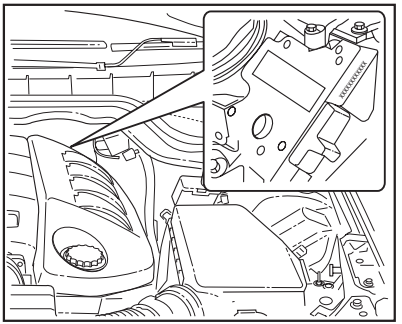


(SIDI) direct injection V6 engine ›

The engine number is located at the rear of the engine on the passenger side.

View the engine number from under the vehicle.

V8 engine



The engine number is located at the rear of the engine on the passenger side.

The engine number can be viewed from the top, using a mirror, after the engine cover has been removed. See Engine cover on page 209.

Vehicle data

Engine data

Engine type	3.6L multipoint fuel injection V6	3.6L (SIDI) direct injection V6	3.0L (SIDI) direct injection V6	Generation IV V8
Engine	3564 cc	3564 cc	2986 cc	5967 cc
Engine power and torque	Please refer to holden.com.au			
Octane rating (RON)	Unleaded regular 91 or higher			
Ethanol compatibility	E10	E10	E85	E85

Air conditioning specifications

Refrigerant type	R-134A
Refrigerant charge	580 g +/- 20 g
Compressor oil type	Polyalkylene glycol (Holden part no. 90510419)
Compressor oil refill capacity	120 ml +/- 10 ml

⚠Warning

The air conditioning system should be serviced by qualified personnel only. Improper service methods may cause personal injury.

Axle loads

Maximum front and rear axle loads

Do not exceed the maximum axle loads, including the weight of any fitted accessories.
If unsure, the vehicle should be weighed at a weighbridge.

Total weight includes body, mechanicals, cargo and passengers.

	Front axle load (kg)	Rear axle load (kg)
Omega	1080	1460
Omega LPG	1080	1460
SV6	1080	1350
SS	1120	1350
SS V-Series, SS V-Series Redline	1120	1350

Refer to the vehicle's compliance label for gross vehicle mass (GVM) figures.

Carrying capacity

Carrying capacity is the maximum capacity of the vehicle for the carriage of all non-standard items including cargo carrying devices (e.g. tray or body, if applicable), the cargo itself, occupants, optional equipment and accessories.

Light commercial vehicles, depending on their model and specification, have different carrying capacities.

Dimensions (mm)

	Length	Width excl. mirrors	Width incl. mirrors	Height	Wheel base	Front overhang	Rear overhang	Front track	Rear track
Omega	5060	1899	2100	1463	3009	852	1200	1602	1618
SV6	5046	1899	2100	1463	3009	853	1184	1592	1608
SS	5046	1899	2100	1463	3009	853	1184	1592	1608
SS V-Series	5046	1899	2100	1463	3009	853	1184	1592	1608
SS V-Series Redline	5046	1899	2100	1463	3009	853	1184	1592	1608

The above figures are based on the design dimensions.

Capacities

Engine type	3.6L multipoint fuel injection V6	3.6L (SIDI) direct injection V6	3.0L (SIDI) direct injection V6	Generation IV V8
Refill engine oil including filter (approximately)	6.7 L	6.7 L	6.7 L	7.6 L
Coolant (approximately)	10.0 L	10.0 L	10.0 L	11.0 L
Fuel tank	71.0 L	71.0 L	71.0 L	71.0 L
LPG tank (approximate usable)	75.0 L			

Tyre pressure

Tyre size	Recommended pressure									
	Normal load				Maximum load				Spare	
	Front		Rear		Front		Rear		-	
	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI
225/60 R16 102H	250	36	250	36	270	39	300	44	300	44
245/45 R18 100V										
245/40 R19 98W										

Customer information

Customer satisfaction procedure 279
Customer assistance offices..... 279

Customer satisfaction procedure

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing, parts/accessories or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer Sales and Service Department.

We realise however that, with the best intentions, misunderstandings sometimes occur.

Therefore, we suggest you discuss any concern with one of the Holden Dealer management people.

If you have not received satisfaction from the Sales Manager or Service Manager, go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

Customer assistance offices

Australia

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call.

The contact number is:

1800 033 349

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne 3001

Your letter should clearly outline your concern or query and include:

- Your name and address
- Telephone numbers, both private and business
- Servicing dealer's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the Service/ Warranty Booklet in your vehicle's glove box
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the Service/Warranty Booklet in your vehicle's glove box.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

New Zealand

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand.

Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glove box wallet.

New Zealand Assistance can be reached on:

0800 HOLDEN (**0800 465 336**)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

If you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
PO Box 11195
Ellerslie
Auckland 1542

A

ABS 182
Accessories
- Battery saver 94
- Power socket..... 62
- Retained Accessory Power (RAP) 171

Active Fuel Management (AFM).. 83
Active safety systems
- Antilock Brake System (ABS)..... 182
- Electronic Brake Assist (EBA)..... 186
- Electronic Stability Program (ESP®) 184

Active Select (A/S) mode..... 179
Airbags 34
- Airbag fault warning 66
- Airbags and child restraints..... 34
- SRS warning light..... 66

Air compressor kit..... 245
Air conditioning..... 12, 160
- Specifications..... 275

Air pressure, tyres 241
Alarm system..... 23
Alternator warning lamp..... 66
Anchorage points, child restraints..... 41, 42
Anti-theft alarm 23
Antifreeze 214
Antilock Brake System (ABS).... 182
Approach lighting..... 91
Automatic transmission 12, 172
- 4 speed 172
- 6 speed 175
- Active Select (A/S) 77, 179
- Fluid 213, 271
- Powertrain braking 177
- Sport shift..... 77, 175, 177
- Transmission messages 77

Auxiliary devices.....117
Axle loads..... 200, 276

B

Battery 221
- Disconnection..... 222
- Jump starting..... 261
- Replacement..... 222

Battery saver 70, 94
Bluetooth® music 123
Bluetooth® phone..... 99, 151
Bonnet 205
Brakes 182
- ABS..... 182
- ABS warning lamp..... 68
- Brake fluid level..... 220
- Brake warnings 67
- Electronic Brake Assist (EBA)..... 186
- Park brake..... 183

Bulb replacement..... 223
Bull bars..... 202

C

Capacities, fluid 277
Caravan, towing..... 198
Carbon monoxide, warning..... 189
Car key 4, 15
CD player.....111
Central locking..... 15, 19
Changing a flat tyre 240, 250
Child restraints..... 34, 39
- Anchor points 42
- Types of restraint..... 39

Cleaning 266
Exterior 266
Interior 268
Climate control 12, 159
Air conditioning controls ... 12, 160
Display size 164
Sensors 166
Clock 100
Clutch 171, 181
Fluid 220
Compliance labels 273
Console 45
Coolant
Capacities 277
Cooling system messages 70
Engine coolant 213
Specification 271
Temperature gauge 63
Cruise control 70, 186
Cup holders 44
Customisation options 85

D
Dashboard layout 8, 57
Default LPG operation 196
Delayed headlamps 91
Demister, rear window 164
Demister, windscreen 164
Differential oil 271
Dimensions 277
Dimmer, instrument lighting 92
Dipping headlamps 10, 90
Dipstick
Automatic transmission fluid .. 212
Engine oil 210
Display, climate control 164
Dome lamps 93
Door ajar light 69
Doors 19
Key 15
Locking and unlocking 19
Lock snibs 20
Driving
Parking 172
Running-in 167
Safety 172
Starting the engine 171
Driving lamps 202
Driving precautions 167

E
Egress lighting 91
Electric mirrors 25
Electric seat 29
Electric windows 26
Electronic Brake Assist (EBA) ... 186
Electronic Stability Program (ESP®) 184
Emergencies
Bulb replacement 223
Changing a flat tyre 250
Customer assistance 279
Engine overheating 215
Flat battery 261
Flat tyre 250
Fuse replacement 234
LPG system 192
Towing a disabled vehicle 265
Emissions 203

Engine
Compartments 207
Cooling system 213
Cover 209
Number locations 274
Overheating 215
Specifications 275
Starting 14, 76, 171
Temperature warning 70
Engine oil 210
Adding oil 210
Capacities 277
Change interval 211
Consumption 211
Dipstick 210
Low oil pressure warning 71
Enter button 81
Ethanol 190, 275
Exhaust fumes, warning 189
Exterior lighting 10, 89
Exterior mirrors 25

F
Fan, climate control 162
Flat battery 261
Flat tyre 240
Changing a flat tyre 240, 250
Tyre sealant 245
Fluid levels
Automatic transmission 212
Brake 220
Clutch 220
Engine oil 210
Power steering 218
Windscreen washer 219
Free turning door locks 21
Fuel 189
Additives 190
Consumption, reduction 204
Ethanol 190
Fuel cap 192
Fuel filler flap 191
Fuel type 191
Fumes warning 189
Gauge 63, 197
Low fuel warning 72
Fuel continued
LPG 192
Octane rating 191, 275
Precautions 189
Refuelling 191
Selector switch 196
Tank capacity 277
Type 191
Very low fuel warning 73
Fuses and relays 235

G
Gas cylinders 54, 169
Gauges 63
Fuel 63, 197
Information displays 63
Speedometer 63, 85
Tachometer 63
Temperature 63
Glove box 44
Key 16
Graphic Information Display (GID) 69

H
Hand brake 183
Hazard warning 11, 91
Headlamps 226
Customising 91
High beam indicator lamp 90
Operation 89
Head restraints 6, 28
Heating and ventilation 159
Help screens..... 86
Help system (infotainment)..... 157
High beam 10, 69, 90
Horn.....11, 61

I
Identification labels 273
Identification numbers 274
Ignition lock/switch..... 14, 170
Immobiliser 24
Indicators/warning lamps..... 63
Infant and child restraints 39
Inflation, tyres 241, 245
Infocard..... 18
Information displays..... 63
Infotainment system 95
Bluetooth® music 123
Bluetooth® phone 151
CD players 110
Clock 100
Controls..... 98
Date..... 101
Display brightness..... 101
Help system 157
iPod® 117
MP3.....113
Navigation 124
Operation 100
Radio..... 105
Settings 102
Theft-deterrent feature 96
Time 100
USB port..... 120
Virtual CD changer (VCDC) 115
Insect screens 202
Instrument panel..... 92
Interior lamps..... 10, 92
Interior mirrors 25
iPod®.....117

J
Jack
Jacking locations..... 254
Operation 254
Storage..... 240
Trolley jack locations..... 258
Jack..... 240, 254
Nut cap tool..... 240, 254
Wheel wrench 240, 254
Jump starting..... 261

K
Keys..... 4, 15
Glove box..... 16
Ignition key..... 15
Infocard for keys..... 18
Matching transmitter(s) 16
Panic/vehicle locate button 15
Personal identity..... 17
Storage..... 18

L
Lighting 89
Approach lighting 91
Battery saver 94
Bulb replacement 223
Delayed headlamps 91
Dimmer 92
Driving lamps 202
Fog lamps 92
Glove box 94
Hazard lamps 11, 91
Headlamps 90
High/low beam 10, 90
Interior lamps 10, 92
Lamp control 89
Night panel mode 93
Personal identity keys 91
Reading lamps 94
Reverse lamps 90, 91
Turn signals 11, 92
Loading the vehicle 54, 168
Locks
Bonnet lock 205
Door locks 4, 19, 20
Door locks, free turning 21
Ignition lock/switch 170
Locking and unlocking 4, 19
Tonneau cover 21
LPG
Default operation 196
Dual fuel LPG 192
Emergency procedures 192
Fuel gauge 197
Fuel selector switch 196
LPG fuel gauge 197
Manual service valve 193
Operation 196
Refuelling 195
Starting the engine 195
Tank capacity 195, 277
Vehicle storage 195
Lumbar support 30

M
Maintenance 204
Manual door locks 20
Manual service valve 193
Manual transmission 180
Mirrors
Exterior 7, 25
Interior 7, 25
MP3 113

N
Navigation 124
Address settings 132
Configuring the system 138
Overview 125
Points of Interest (POI) 136
Route settings 129
Symbols 148
New vehicle running-in 167
Nudge bars 202
Number locations (engine) 274
Nut cap tool 240

O
Octane rating 191, 275
Odometer 82
Oil
Adding oil 210
Change interval 211
Checking oil level 210
Consumption 211
Differential oil 271
Dipstick 210, 212
Low pressure warning 71
Overheating 215
Engine temperature warning 70
Overspeed 83

P
Panic/vehicle locate button 15
Park brake 183
Park brake warning 68
Parking 14, 172
Parking lamps 227
Personal identity keys 17, 91
Petrol operation 196
Phone 99, 151
Polishing 267
Pollen/dust filter 166
Power mirrors 7, 25
Power seat 29
Power socket 62
Power steering
Fluid 218
Precautions 168
Powertrain braking 177
Power windows 26
Puncture 243, 245
Push/tow start warning 262

R
Radiator cap 213, 216
Radio 105
Reading lamps 94
Rear view mirror 25
Rear window demister 164
Refuelling 191
Relays 235
Restraints 28
Child restraints 39
Retained Accessory Power (RAP) 171
Ride control systems 184
Roo bars 202
Running-in a new vehicle 167

S
Safety mode warning 72
Seat belt pretensioners 39
Seat belts 6, 31
Seat belt warning 64
Seats 5, 28
Adjustment 5, 29
Child restraints 39
Front seats 29
Head restraints 28
Security
Alarm 23
Card/numbers 18
Servicing 270
Snow chains 244
with ESP® 184
Spare wheel 240
Spare wheel carrier troubleshooting 259

Specifications 271, 275
Air conditioning..... 275
Axle loads..... 276
Capacities 277
Dimensions 277
Engine..... 275
Towing capacity..... 198
Tyre pressure 278
Speedometer..... 63, 85
Speed warning preset..... 84
Sport mode..... 175, 177
Sports bar..... 54
Sports tyres 242
Stability control 184
Starting
Flat battery 261
Normal..... 13, 167
Steering
Power steering fluid..... 218
Tilt 7, 60
Storage compartments 44
Sunglasses holder..... 45
Sun visor mirrors 26
Supplemental Restraint System (SRS)..... 34
Airbags..... 34
Seat belt pretensioners 39
Symbols (navigation)..... 147, 149

T

Tachometer..... 63
Tailgate latch..... 22
Tank capacity..... 277
Technical data..... 272
Telephone..... 99, 151
Temperature gauge 63
Temperature sensors..... 166
Theft-deterrent feature..... 96
Tilt steering 7, 60
Time..... 100
Tonneau cover..... 47, 51
Tools 240
Towing 198
Caravan/trailer..... 198
Equipment..... 200
Load distribution hitch 200
Loading 198
Towing continued
Precautions 200
Towing slot 265
Traction control..... 184
Traffic Message Channel (TMC) 144
Trailer towing 198
Transmission
Automatic 12, 172
Manual 13, 180
Transmission fluid..... 212, 271
Trip button 60, 81
Trip computer 81
Customisable features 85
Trolley jack locations 258
Turn signals 11, 92
Tyre pressure..... 278
Tyres
Chains..... 244
Grip 169
Placard..... 241
Replacement..... 244
Rotation..... 243

Tyres continued
Sealant and air compressor kit 245
Sports tyres 242
Tread depth 242

U
Underspeed 85
USB port 120

V
Vanity mirrors 26
Vehicle care 203
Vehicle Identification Number (VIN) 273
Vehicle personalisation 85
Cylinder mode 88
Entering 85
Exiting 86
Help screens 86
Lighting 88
Navigating the menu 86
Reset settings 87
Security 87
Trip computer 88
Vehicle storage 195
Ventilation system 159
Vents 160
Virtual CD Changer (VCDC) 115

W
Warning lights 63
Washer fluid 219
Washing the vehicle 266
Water crossing 169
Wheels
Wheel replacement 250
Wheels and tyres 241
Windows 26
Windscreen demister 164
Windscreen washer fluid 219
Wiper blades 267
Wipers and washers 12, 61